Saskatchewan
Health

Vital Statistics

Saskatchewan Accident Statistics

1987

Saskatchewan

ISSN 0380-5425

91-03235/

TABLE OF CONTENTS

		PAGE
Introduction		1
Section I - Mortality		
Table 1	Mortality and Accidental Mortality in Saskatchewan, 1950-1987	4
Table 2	Accidental Mortality by Age Group, 1950-1987	5
Figure 1	Accidental Mortality by Cause, 1987	6
Figure 2	Accidental Mortality Rates by Cause, 1985-1987 Average	7
Table 3	Accidental Mortality by Cause and Sex, 1979-1987	8
Figure 3	Age and Sex Specific Accident Mortality Rates, 1985-1987 Average	9
Table 4	Accidental Mortality by Cause and Age Group, 1985-1987	10
Table 5	Selected Causes of Death Due to Accidental Injury by Place of Occurrence, 1987	12
Section II - Hospital Admissions		
Table 6	Hospital Separations for All Causes and for Accidents, 1983-1984 to 1986-1987	14
Figure 4	Hospital Separations by Type of Accident, 1986-1987	15
Table 7	Age and Sex Specific Rates of Hospitalization Due to Accidental Injury, 1986-1987	16
Figure 5	Age and Sex Specific Rates of Hospitalization Due to Accidental Injury, 1986-1987	17
Table 8	Hospital Separations, Patient Days and Average Days of Stay by Type of Accident, 1983-84 to 1986-87	18
Figure 6	Rates of Hospitalization by Type of Accident, 1986-87	20

		PAGE
Table 9	Hospitalized Accident Cases by Place of Occurrence, 1986-1987	21
Table 10	Rates of Hospitalization by Age and Type of Accident, 1986-1987	22
Section III - Vehicle Accidents		
Table 11	Motor Vehicle Accident Mortality by Age Group, 1971-1987	26
Table 12	Hospital Separations for Vehicle Accidents by Age and Type of Vehicle, 1986-1987	27
Section IV - Interprovincial Comparisons		
Table 13	Accident Mortality Rates, Canada and the Provinces, 1985-1987	30
Table 14	Accident Mortality Rates by Sex, Canada and the Provinces, 1985-1987	31
Section V - Population		
Health Insurance Registration Covered Population by Age Group, 1964-1989		34
Appendix A		
Accidental Mortality by "E" Code and by Age Group, 1987		38
Accidental Mortality by "E" Code and by Sex, 1984-1987		41
Appendix B		
Hospital Separations by "E" Code, 1986-1987		48
Accident Classifications		
Explanation of Accident Classifications		56

INTRODUCTION

The annual toll taken by accidents in terms of both deaths and injuries has only relatively recently come to the attention of the public. Accidents are a significant cause of death and disability for nearly all age groups, and in some age groups accidents represent the leading cause of death and hospital admission. The purpose of this report is to provide a broad overview of accidents in Saskatchewan.

Saskatchewan Accident Statistics is an annual publication of the Department of Health and provides information concerning the entire population. Data have been presented in graphic form in addition to tabular form.

There are two sources of data available on accidents in Saskatchewan: Statistics Canada data on deaths (mortality), and Hospital Services Branch data on hospital admissions. Both of these data sources use the External Cause or "E" codes of the International Classification of Diseases to define accidents. Unfortunately, there are no data relating to visits made to either physicians' offices, emergency wards of hospitals (where no admission takes place), or other outpatient clinics. These omissions are a serious gap in the overall accident picture. Many minor and major accidents (e.g. a broken leg) may not result in hospital admission. Thus, it is not possible to present as complete a picture of morbidity as is desirable.

The first two sections of the report deal with mortality and hospital admissions, respectively. The third section focusses on motor vehicle accidents, while the fourth provides information on interprovincial comparisons. The final section lists population data from 1964 to 1989. Detailed listings of mortality and hospital data by individual "E" code can be found in Appendices A and B, respectively. Appendix C provides an explanation of the accident classifications ("E" code groupings) used in this report.

The mortality data are for the year 1987 and are "final". In years previous to 1982, preliminary data have been used. Because of the significant differences between the preliminary and final data, it was decided to no longer use preliminary data. Hospital data are for the fiscal year 1986-1987 (April 1, 1986 to March 31, 1987). Thus, the mortality and hospital data cover slightly different time periods. The next report will include 1988 mortality data and 1987-1988 hospital data.

Beginning in 1984-85, the collection of hospital admission/separation data was provided to the Hospital Services Branch through H.M.R.I. (Hospital Medical Records Institute). Statistics shown in this publication may vary from previous years due to this change in the methods of processing the data.

Should you have any questions or comments concerning the report, please contact:

Vital Statistics
Saskatchewan Health
1919 Rose Street
Regina, Saskatchewan
S4P 3V7

Saskatchewan Health

Mortality

Saskatchewan

TABLE 1

Mortality and Accidental Mortality in Saskatchewan 1950 - 1987

GROUP	CAUSE	1950		1960		1970		1980		1986		1987	
		Number	Rate+	Number	Rate+	Number	Rate+	Number	Rate+	Number	Rate+	Number	Rate+
Total Population	All Causes	6,243	749.4	6,878	750.6	7,472	794.0	7,651	796.1	8,061	798.4	7,808	770.0
	Accidents	364	43.7	455	49.7	469	49.8	567	59.0	502	49.7	515	50.7
0 - 1	All Causes	690	3538.5	637	2687.8	386	2271.6	193	1155.7	157	877.0	155	906.4
	Accidents	27	138.5	26	109.7	19	117.3	6	35.9	9	50.2	5	29.2
1 - 4	All Causes	158	204.1	121	134.4	70	101.1	50	78.0	39	55.6	37	53.7
	Accidents	39	50.4	41	45.5	20	28.9	21	32.8	18	25.6	21	30.5
5 - 9	All Causes	72	89.4	47	45.0	40	38.6	32	41.4	22	26.7	25	30.1
	Accidents	17	21.1	18	17.2	15	14.5	22	28.5	9	10.9	12	14.4
10 - 14	All Causes	37	49.7	29	32.2	36	34.8	23	28.2	28	36.1	35	44.8
	Accidents	9	12.1	14	15.5	16	15.5	11	13.5	11	14.2	19	24.3
15 - 24	All Causes	150	109.1	131	101.6	197	118.8	230	123.5	193	115.2	176	108.1
	Accidents	52	37.8	72	55.8	117	70.6	150	80.5	118	70.4	104	63.8
25 - 64	All Causes	1,750	462.0	1,537	391.7	1,743	447.9	1,677	397.2	1,644	351.4	1,508	318.6
	Accidents	123	32.5	157	40.0	189	48.6	206	48.8	187	39.9	209	44.2
65 - 74	All Causes	1,551	3335.5	1,638	3114.1	1,421	2691.3	1,617	2364.0	1,685	2230.3	1,649	2158.3
	Accidents	43	92.5	43	81.7	28	53.0	49	71.6	44	58.2	54	70.7
75+	All Causes	1,835	9972.8	2,726	9026.5	3,596	8901.0	3,829	8546.9	4,293	8092.4	4,223	7706.2
	Accidents	54	293.5	83	274.8	65	160.9	102	227.7	106	199.8	91	166.1

Source: Statistics Canada

+Rate per 100,000 population (Statistics Canada Population)

TABLE 2

Accidental Mortality in Saskatchewan
Per Cent of Deaths Caused by Accidents
By Age Group, 1950 - 1987

Age Group	1950	1960	1970	1980	1986	1987
Total Population	5.8%	6.6%	6.3%	7.4%	5.9%	6.3%
0 - 1	3.9	4.1	5.2	3.1	5.7	3.2
1 - 4	24.7	33.9	28.6	42.0	46.1	56.7
5 - 9	23.6	38.3	37.5	68.7	40.9	48.0
10 - 14	24.3	48.3	44.4	47.8	35.7	54.2
15 - 24	34.7	54.9	59.4	65.2	60.1	58.5
25 - 64	7.0	10.2	10.8	12.3	10.9	13.1
65 - 74	2.8	2.6	2.0	3.0	2.3	3.0
75^{+}	2.9	3.0	1.8	2.7	2.3	2.0

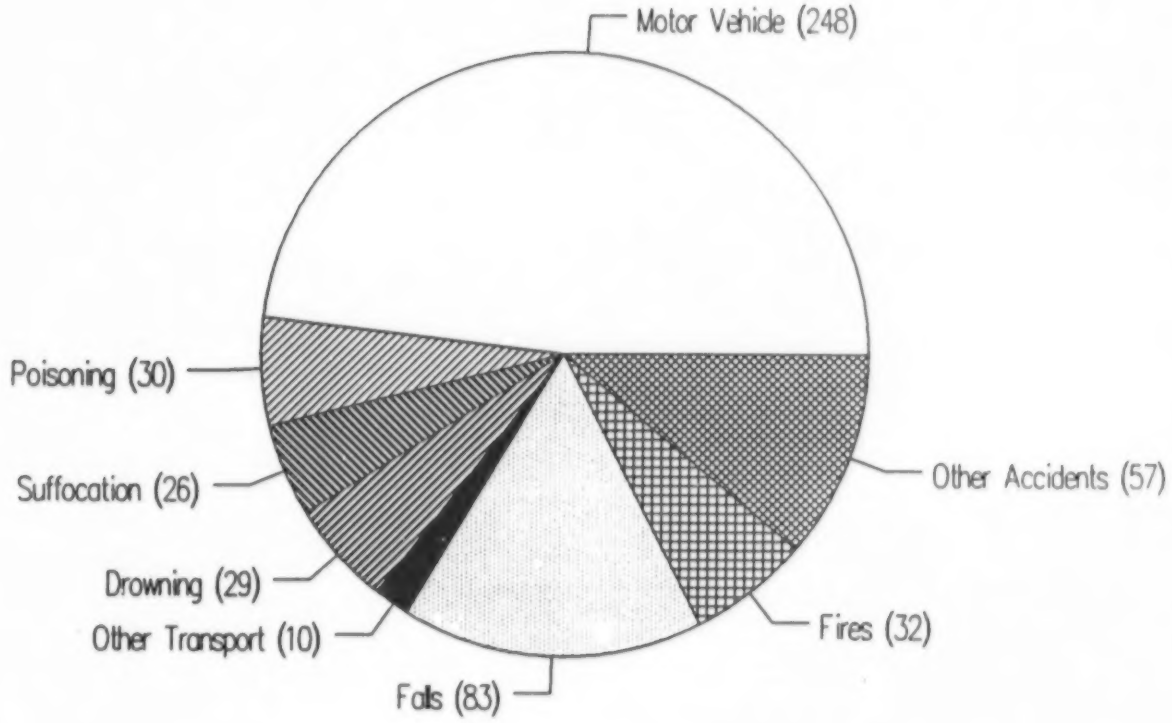
Source: Statistics Canada

In 1987, 515 people died because of accidents, representing 6.3% of all deaths occurring during the year. Table 1 illustrates trends in mortality from accidents and from all causes (including accidents) since 1950. The mortality rate for the entire population has increased over this period of time. Mortality rates for specific age groups, however, have decreased. The most dramatic decline is for those under one year of age. These increases and decreases have occurred at the same time due to changes in the age and sex structure of the population.

Table 2 shows the importance of accidents in mortality among various age groups. The significance of accidents has increased for all age groups with the exception of those under one year of age, those aged 15-24, and those aged 75 and over. The apparent decline in the under 1 group is largely due to improved diagnosis. Prior to 1972, deaths from Sudden Infant Death Syndrome were included as suffocation in accident data.

FIGURE 1

NUMBER OF ACCIDENTAL DEATHS BY CAUSE
SASKATCHEWAN, 1987

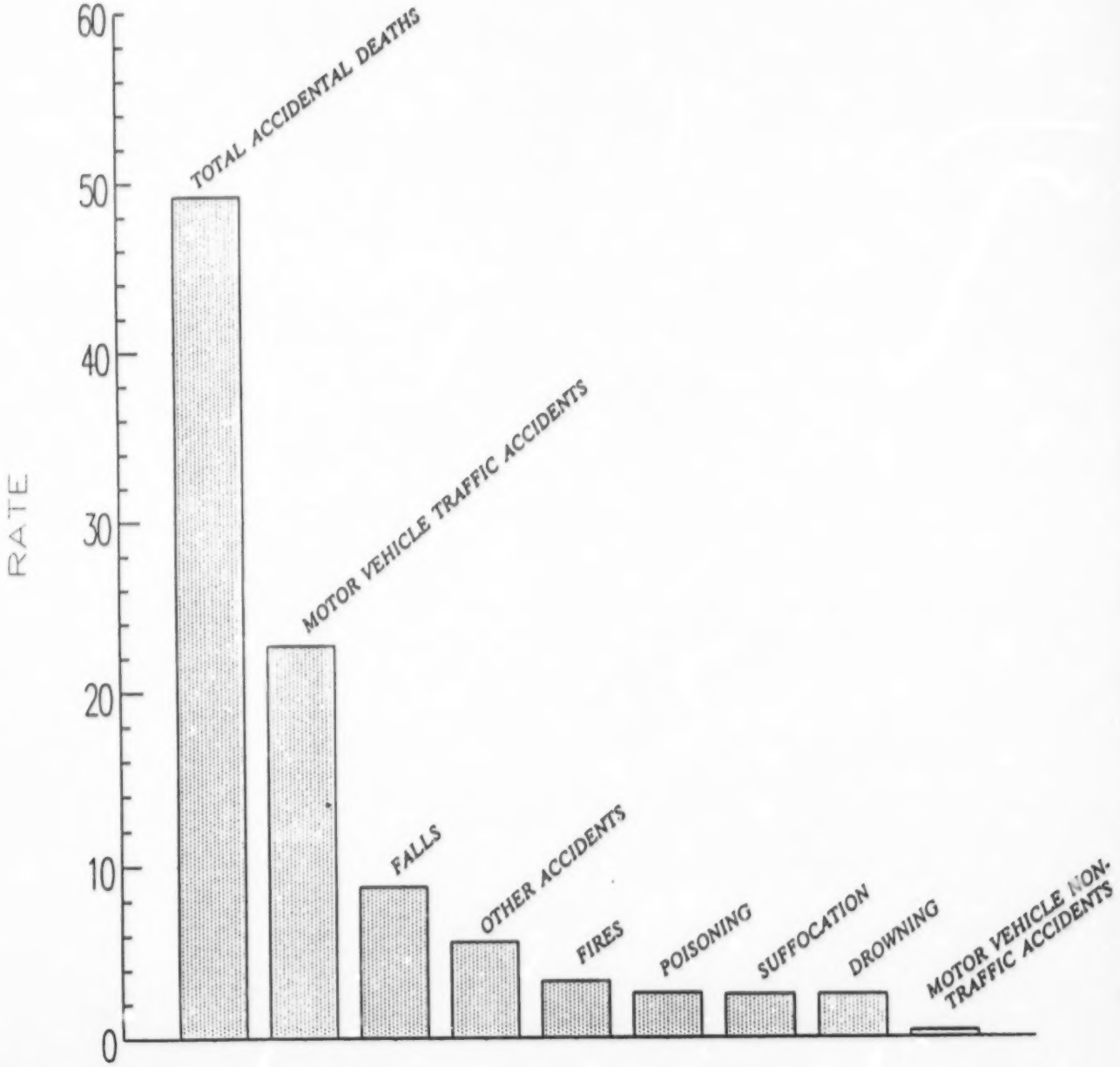


SOURCE: STATISTICS CANADA

This graph shows the relative significance of various types of accidents. The numbers indicate the number of deaths in 1987. Motor vehicle deaths represent 48.2% of the total. Falls, which are the second leading cause of accidental death, account for 16.1%. "Other Accidents" include a wide variety of events which cannot be readily categorized. Figure 2 details accident rates by types of accidents.

FIGURE 2

ACCIDENT MORTALITY RATES BY CAUSE SASKATCHEWAN, 3-YEAR AVERAGE, 1985-87



SOURCE: STATISTICS CANADA

TABLE 3

Accidental Deaths by Cause and Sex
Saskatchewan, 1979-1987

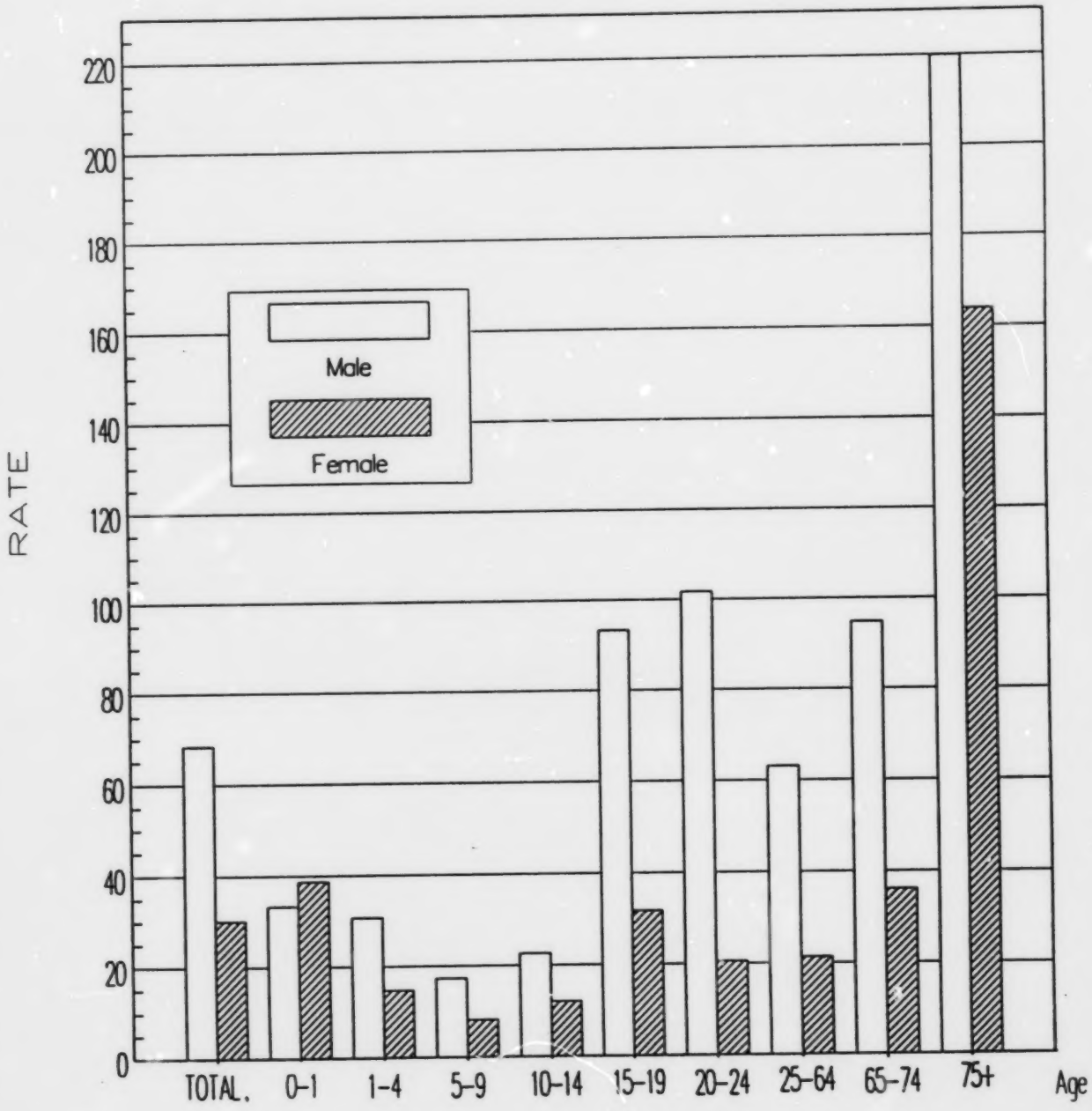
Cause of Death	Sex	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total Accidental Deaths	Total	585	567	528	531	469	476	482	502	515
	Male	415	403	403	379	336	325	334	348	358
	Female	170	164	125	152	133	151	148	154	157
Motor Vehicle Traffic Accidents	Total	250	246	265	239	226	222	209	245	241
	Male	173	176	211	179	171	158	145	181	172
	Female	77	70	54	60	55	64	64	64	69
Motor Vehicle Non-Traffic Accidents	Total	22	10	14	9	9	9	11	4	7
	Male	16	9	13	7	8	7	10	4	7
	Female	6	1	1	2	1	2	1	-	-
Other Transportation	Total	16	23	9	14	4	9	8	19	10
	Male	13	20	7	12	2	9	7	14	8
	Female	3	3	2	2	2	-	1	5	2
Fires	Total	53	41	32	36	31	23	23	17	32
	Male	37	28	24	25	21	17	21	14	21
	Female	16	13	8	11	10	6	2	3	11
Drowning	Total	43	37	30	22	20	23	25	22	29
	Male	40	33	24	21	17	20	17	19	28
	Female	3	4	6	1	3	3	8	3	1
Suffocation	Total	21	16	16	35	24	23	23	27	26
	Male	16	10	11	27	18	14	17	13	13
	Female	5	6	5	8	6	9	6	14	13
Poisoning	Total	16	21	18	27	30	23	28	23	30
	Male	10	15	9	16	20	16	16	17	22
	Female	6	6	9	11	10	7	12	6	8
Falls	Total	99	107	88	87	60	76	91	94	83
	Male	53	60	54	45	27	33	48	44	37
	Female	46	47	34	42	33	43	43	50	46
Other Accidents	Total	65	66	56	62	65	68	64	51	57
	Male	57	52	50	47	52	51	53	42	48
	Female	8	14	6	15	13	17	11	9	9

Source: Statistics Canada

This table shows differences between males and females by type of accident from 1979 to 1987. These data have remained fairly constant over this time period. Higher mortality for males can be found in nearly all accident categories. Differences are particularly evident in motor vehicle accidents, fires, drowning and suffocation.

FIGURE 3

AGE AND SEX SPECIFIC RATES OF MORTALITY FROM ACCIDENTS SASKATCHEWAN, 1985 TO 1987 AVERAGE



RATE PER 100,00 POPULATION (STATISTICS CANADA POPULATION)
SOURCE: STATISTICS CANADA

TABLE 4

Accident Mortality By Cause and Age Group
Saskatchewan, 1985-1987

Cause of Death	Total Population No.	Rate+	0-1 No.	Rate+	1-4 No.	Rate+	5-9 No.	Rate+	10-14 No.	Rate+	15-19 No.	Rate+	20-24 No.	Rate+	25-64 No.	Rate+	65-69 No.	Rate+	70-74 No.	Rate+	75-79 No.	Rate+	80+ No.	Rate+
Total Deaths																								
1985	482	47.3	5	28.2	11	16.3	11	13.4	11	13.9	38	46.8	54	55.8	203	43.4	19	46.9	27	78.5	29	119.3	74	267.1
1986	502	49.6	9	50.3	18	25.7	9	10.9	11	14.2	59	75.1	59	66.4	187	39.9	18	44.4	26	74.9	24	95.9	82	292.5
1987	515	50.8	5	29.2	21	30.5	12	14.5	19	24.3	51	65.6	53	62.3	209	44.1	25	60.8	29	82.2	21	81.7	70	240.5
3 Year Average	499	49.2	6	35.9	17	24.2	11	12.9	13	17.5	47	59.8	55	61.9	199	42.5	20	50.7	27	78.5	24	98.9	74	266.7
Motor Vehicle Traffic																								
1985	209	20.5	-	-	3	4.4	8	9.7	7	8.8	29	35.7	33	34.1	92	19.7	9	22.2	10	29.1	9	37.0	9	32.5
1986	245	23.9	2	11.2	9	12.8	6	7.3	8	10.2	47	59.7	41	43.9	100	21.2	2	4.9	12	34.7	9	35.9	9	32.4
1987	241	23.8	1	5.8	6	8.7	7	8.4	11	14.1	41	52.8	43	49.4	96	20.3	8	19.5	12	33.9	7	27.2	10	34.4
3 Year Average	231	22.7	1	5.6	6	8.6	7	8.5	9	11.0	39	49.4	39	42.5	96	20.4	6	15.5	11	32.6	8	33.4	9	33.1
Motor Vehicle Non-Traffic																								
1985	11	1.1	-	-	-	-	1	1.2	-	-	1	1.2	1	1.0	6	1.3	-	-	1	2.9	1	4.1	-	-
1986	4	*	-	-	1	1.4	-	-	-	-	-	-	-	-	3	*	-	-	-	-	-	-	-	-
1987	7	*	-	-	-	-	-	-	-	-	2	2.6	-	-	4	*	1	2.4	-	-	-	-	-	-
3 Year Average	7	*	-	-	*	*	*	*	-	-	1	1.3	*	*	4	*	*	*	*	*	*	1.3	-	-
Other Transport																								
1985	8	*	-	-	-	-	-	-	-	-	-	-	2	2.1	6	1.3	-	-	-	-	-	-	-	-
1986	19	1.9	-	-	-	-	-	-	-	-	-	-	2	2.1	12	2.5	1	2.5	1	2.9	1	3.9	2	7.2
1987	10	1.0	-	-	-	-	-	-	-	-	1	1.3	1	1.2	7	1.5	-	-	-	-	-	-	1	3.4
3 Year Average	12	1.0	-	-	-	-	-	-	-	-	*	*	2	1.8	8	1.8	*	*	*	*	*	1.3	1	3.5
Fires																								
1985	23	4.9	1	5.6	3	4.4	-	-	-	-	2	2.5	3	3.1	11	2.3	1	2.5	-	-	1	4.1	1	3.6
1986	17	1.7	-	-	1	1.4	-	-	-	-	-	-	1	1.1	9	1.9	1	2.5	1	2.9	-	-	4	14.4
1987	32	3.2	-	-	8	11.6	3	3.6	3	3.8	2	2.6	2	2.4	8	1.7	2	4.9	-	-	2	7.8	2	6.9
3 Year Average	24	3.3	*	1.9	4	5.8	1	1.2	1	1.3	1	1.7	2	2.2	9	1.9	1	3.3	*	*	1	3.9	2	8.3
Drowning																								
1985	25	2.5	1	5.6	3	4.4	2	2.4	2	2.5	2	2.5	2	2.1	9	1.9	2	4.9	1	2.9	1	4.1	-	-
1986	22	2.2	-	-	4	5.7	-	-	1	1.3	4	5.1	2	2.1	6	1.3	3	7.4	1	2.9	-	-	1	3.6
1987	29	2.9	1	5.8	3	4.4	2	2.4	-	-	1	1.3	1	1.2	21	4.4	-	-	-	-	-	-	-	-
3 Year Average	25	2.5	*	3.8	3	4.8	1	1.6	1	1.3	2	2.9	2	1.8	12	2.5	2	4.1	*	1.9	*	1.4	-	-

Cause of Death	Total Population No.	Rate+	0-1 No.	Rate+	1-4 No.	Rate+	5-9 No.	Rate+	10-14 No.	Rate+	15-19 No.	Rate+	20-24 No.	Rate+	25-64 No.	Rate+	65-69 No.	Rate+	70-74 No.	Rate+	75-79 No.	Rate+	80+ No.	Rate+
Suffocation																								
1985	23	2.3	3	16.9	2	3.0	-	-	-	-	2	2.5	1	1.0	10	2.1	1	2.5	1	2.9	2	8.2	1	3.6
1986	27	2.6	6	33.5	2	2.9	1	1.2	-	-	2	2.5	2	2.1	9	1.9	-	-	1	2.9	1	3.9	3	10.8
1987	26	2.6	2	11.7	3	4.4	-	-	1	1.3	1	1.3	-	-	6	1.3	3	7.3	3	8.5	2	7.8	5	17.2
3 Year Average	25	2.5	4	20.7	2	3.4	*	*	*	*	2	2.1	1	1.0	8	1.8	1	3.3	2	4.8	2	6.6	3	10.5
Poisoning																								
1985	28	2.7	-	-	-	-	-	-	-	-	1	1.2	2	2.1	20	4.3	1	2.5	3	8.7	1	4.1	-	-
1986	23	2.3	-	-	1	1.4	-	-	-	-	1	1.3	-	-	17	3.6	1	2.5	-	-	2	7.9	1	3.6
1987	30	2.9	-	-	-	-	-	-	1	1.3	2	2.6	2	2.4	23	4.9	1	2.4	1	2.8	-	-	-	-
3 Year Average	27	2.6	-	-	*	*	-	-	*	*	1	1.7	1	1.5	20	4.3	1	2.5	1	3.8	*	1.4	*	*
Falls																								
1985	91	8.9	-	-	-	-	-	-	-	-	-	-	-	-	17	3.6	3	7.4	5	14.5	9	37.0	57	205.8
1986	94	9.2	-	-	-	-	-	-	-	-	1	1.3	1	1.1	13	2.5	7	17.3	6	17.3	8	31.9	58	208.6
1987	83	8.2	-	-	-	-	-	-	-	-	-	-	1	1.2	11	2.3	6	14.6	10	28.3	9	35.0	46	158.1
3 Year Average	89	8.8	-	-	-	-	-	-	-	-	*	*	*	*	14	2.8	5	13.1	7	20.0	9	34.6	54	190.8
Other Accidents																								
1985	64	6.3	-	-	-	-	-	-	2	2.5	1	1.2	10	10.3	32	6.8	2	4.9	6	17.4	5	20.6	6	21.7
1986	51	5.1	1	5.6	-	-	2	2.4	2	2.6	4	5.1	10	11.2	18	3.8	3	7.4	4	11.5	3	11.9	4	14.3
1987	57	5.6	1	5.8	1	1.5	-	-	3	3.8	1	1.3	4	4.7	33	6.9	4	9.7	3	8.5	1	3.8	6	20.6
3 Year Average	57	5.6	*	3.8	*	*	*	*	2	2.9	2	2.5	8	8.7	27	5.8	3	7.3	4	12.4	3	12.1	5	18.8

Source: Statistics Canada

+Rate per 100,000 population

*Less than 1

This table presents three years' data by age group and by type of accident. Because the number of events occurring within a particular category may fluctuate considerably from one year to the next, a 3 year average is shown. The types of accidents from which deaths result vary from one age group to another. For those under one year of age suffocation and motor vehicle accidents are most common. Motor vehicle accidents are a leading cause of accidental death for all age groups. Falls are the leading cause of accidental death for those aged 80 and over. The differences between age groups are due to a large number of factors including development, activities and health status.

TABLE 5

Selected Causes of Death Due to Accidental Injury
by Place of Occurrence, Saskatchewan, 1987

Type of Accidental Death	Home	Farm	Mine & Quarry	Industrial	Recreation & Sport	Street & Highway	Public Building	Residential Institution	Other Specified	Unspecified	Total
Accidental Poisoning By Drugs, Medicaments and Biologicals	9	-	-	-	-	-	-	-	-	-	9
Accidental Poisoning By Other Solid & Liquid Substances, Gases & Vapours	9	2	1	1	1	-	1	-	-	3	18
Accidental Falls	45	1	-	1	-	2	1	19	1	11	81
Accidents Caused By Fire & Flames	27	2	-	-	1	-	-	-	-	-	30
Accidents Due to Natural and Environmental Factors	4	1	-	-	-	1	-	-	5	4	15
Submersion, Suffocation & Foreign Bodies	12	-	-	-	-	-	2	6	22	10	52
Other Accidents	7	15	2	5	-	2	-	1	3	-	35
Total	113	21	3	7	2	5	4	26	31	28	240

Source: Statistics Canada

A limited amount of data is available on where deaths caused by accidents occurred. Unfortunately in many cases the location is not specified (the proportion varies with each type of accidental death). Motor vehicle and other transportation accidental deaths are not included in these data.

It is interesting to note that almost half of the deaths occurred in the home. Deaths caused by falls, which account for approximately one third of the deaths due to accidental injury, occur predominately in the home and in residential institutions. If these data were broken down by age they would likely reveal where different age groups spend much of their time, and where they are "exposed" to the danger of certain types of accidents resulting in death.

Saskatchewan
Health

Hospital Admissions

Saskatchewan

TABLE 6

Hospital Separations, Patient Days and Average Days of Stay Saskatchewan, 1983-84 to 1986-87

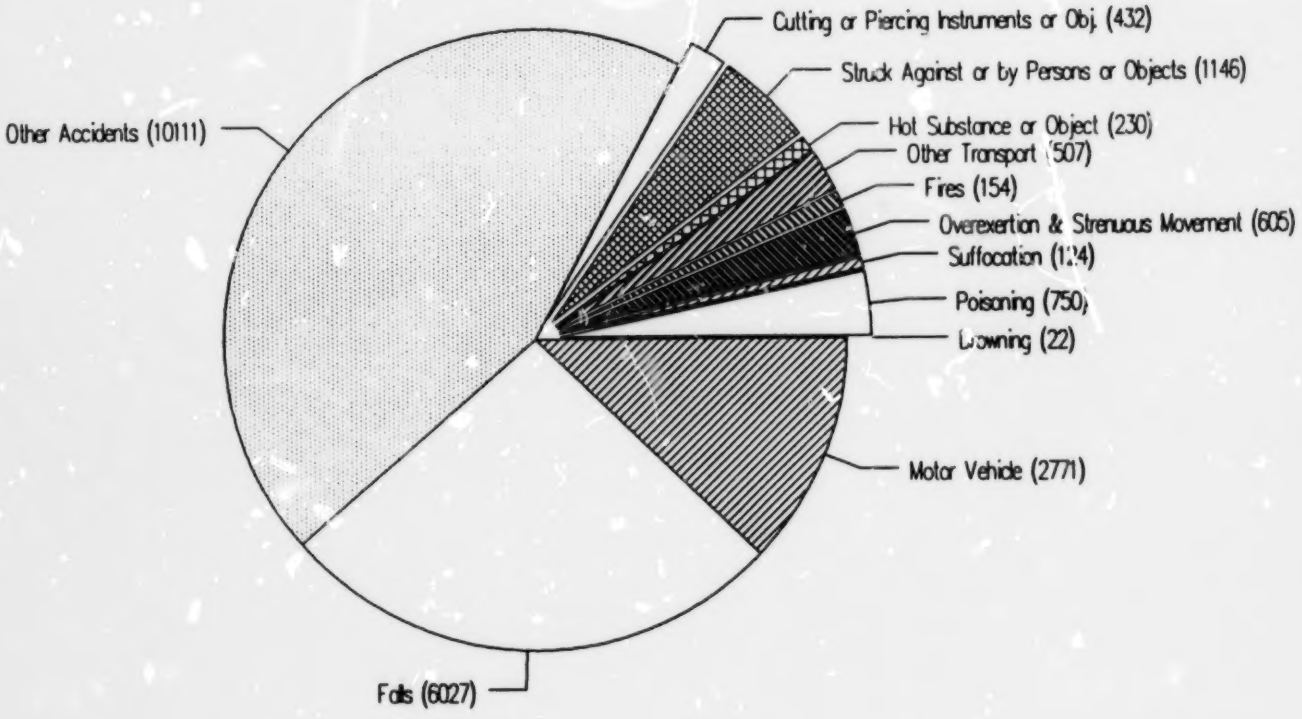
	1983-84	1984-85	1985-86	1986-87
Total Population*	1,014,496	1,028,965	1,039,249	1,041,358
Separations - All Causes	219,451	217,450	219,901	224,189
Separations Per 1,000 Population	216.3	211.3	211.6	215.3
Separations Due To Accidental Injuries	14,712	19,443	21,387	22,879
Separations Per 1,000 Population	14.50	18.90	20.58	21.97
Per Cent of Total Separations Due to Accidental Injuries	6.70	8.94	9.73	10.21
Patient Days - All Causes	1,657,473	1,637,154	1,653,725	1,657,878
Average Length of Stay	7.55	7.53	7.52	7.40
Patient Days - Accidental Injuries	109,673	164,621	181,773	199,736
Average Length of Stay	7.45	8.47	8.49	8.73
Per Cent of Total Patient Days Due to Accidental Injury	6.62	10.06	10.99	12.05

*Health Insurance Registration Covered Population
Source: Hospital Services Branch

In 1986-87 there were 22,879 people admitted to a hospital because of accidental injuries. As noted in the Introduction, hospital separations only provide a partial picture of accidental injuries. In Table 6 hospital data are shown for the years 1983-84 to 1986-87. The total number of separations in 1986-87 was higher than the previous year, but there is no clear trend evident in separations per 1,000 population for accidental injuries. The average length of stay is an indicator of severity of injury. Once again no trend is evident. Medical practice has changed over the years, and as a result many injuries which would previously have required a hospital stay are now treated on an outpatient basis.

FIGURE 4

NUMBER OF HOSPITAL SEPARATIONS BY TYPE OF ACCIDENT SASKATCHEWAN, 1986-87



SOURCE: HOSPITAL SERVICES BRANCH

Figure 4 shows the proportion of separations for various types of accidents. These data are quite different from the mortality data. Falls accounted for 26.3% of all separations due to accidents, while motor vehicle accidents accounted for only 12.1%. Suffocation and drowning are significant cause of death but not hospital admission. In both cases an event may result in either death or simply a "close call" requiring only minimal treatment. Two categories which do not appear in mortality data are "Struck Against" and "Overexertion. Both of these categories are likely related to sports and recreation accidents.

TABLE 7

Age and Sex Specific Rates of Hospitalization
Due to Accidental Injury, Saskatchewan, 1986-87

	Total	0-1	1-4	5-9	10-14	15-19	20-24	25-64	65-74	75+
Covered Population[1]										
Both Sexes	1,041,358	16,745	71,289	84,127	78,640	81,419	96,692	482,905	76,045	53,496
Male	523,245	8,711	36,380	43,166	40,052	41,775	49,415	245,330	35,545	22,871
Female	518,113	8,034	34,909	40,961	38,588	39,644	47,277	237,575	40,500	30,625
Admissions										
Both Sexes	22,879	165	1,464	1,220	1,239	1,600	1,534	8,441	3,052	4,164
Male	12,298	98	842	721	790	1,028	1,004	4,629	1,519	1,667
Female	10,581	67	622	499	449	572	530	3,812	1,533	2,497
Admissions Per 1,000 Covered Population										
Both Sexes	21.9	9.9	20.5	14.5	15.8	19.7	15.9	17.5	40.1	77.8
Male	23.5	11.3	23.1	16.7	19.7	24.6	20.3	18.9	42.7	72.8
Female	20.4	8.3	17.8	12.2	11.6	14.4	11.2	16.0	37.9	81.5
Patient Days										
Both Sexes	199,736	959	5,628	4,762	4,829	6,877	8,193	63,375	37,299	67,814
Male	98,248	466	3,291	3,098	3,000	4,236	5,562	33,699	18,836	26,060
Female	101,488	493	2,337	1,664	1,829	2,641	2,631	29,676	18,463	41,754
Days Per 1,000 Covered Population										
Both Sexes	191.8	57.3	78.9	56.6	61.4	84.5	84.7	131.2	490.5	1267.6
Male	187.8	53.5	90.5	71.8	74.9	101.4	112.6	137.4	530.0	1139.4
Female	195.9	61.4	66.9	40.6	47.4	66.6	55.7	124.9	455.9	1363.4
Average Days of Stay										
Both Sexes	8.7	5.8	3.8	3.9	3.9	4.3	5.3	7.5	12.2	16.3
Male	8.0	4.8	3.9	4.3	3.8	4.1	5.5	7.3	12.4	15.6
Female	9.6	7.4	3.8	3.3	4.1	4.6	5.0	7.8	12.0	16.7

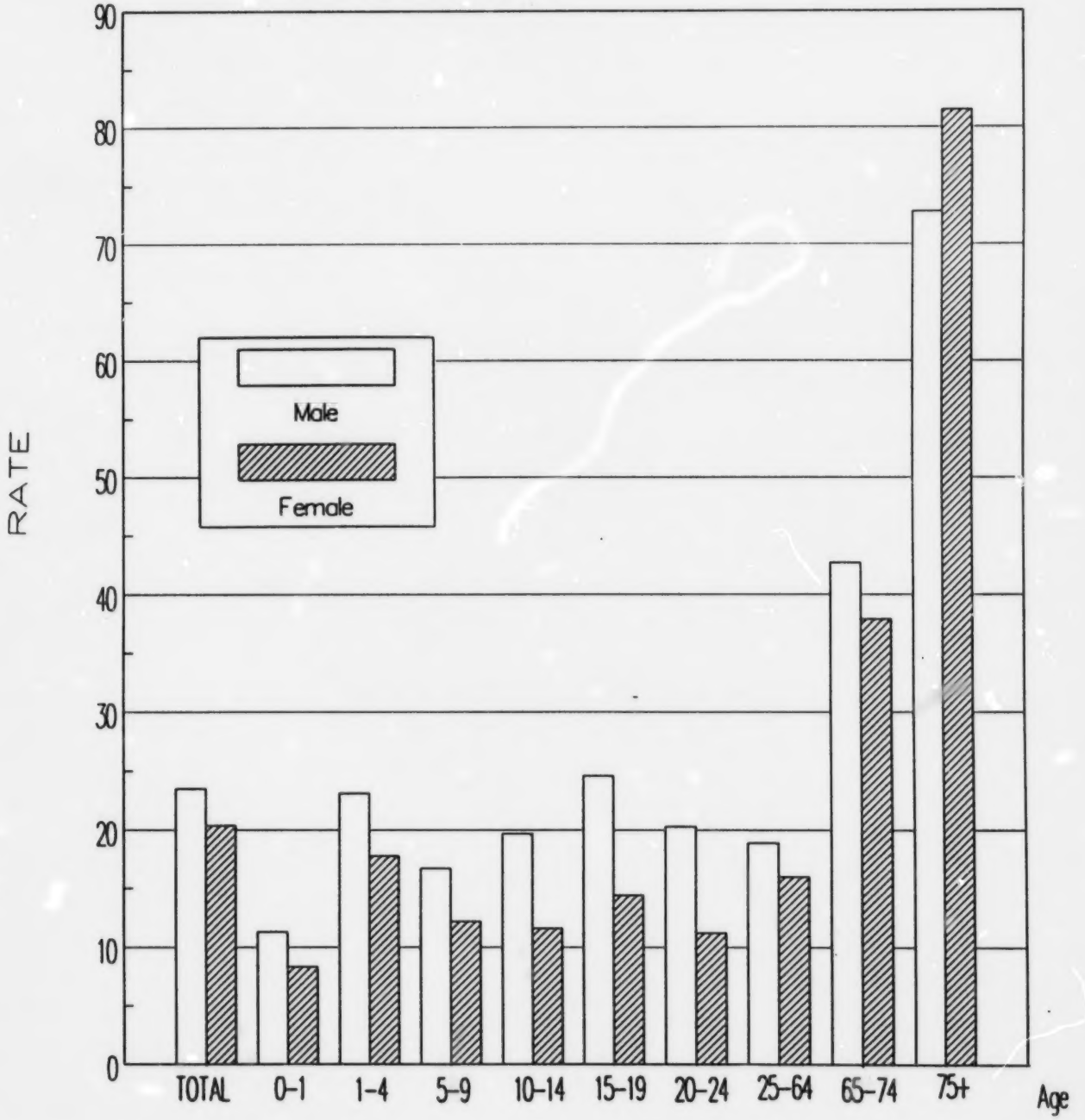
[1]Health Insurance Registration Covered Population
Source: Hospital Services Branch

Hospitalization due to accidental injury varies with both age and sex. In Table 7 these variations are shown. Males are more frequently admitted in all age groups with the exception of those aged 65 and over. The high admission rate for elderly women is likely due to the disproportionate number of very elderly women (85 and over) in the 65 and over age group. As expected, the average length of stay is considerably higher for the elderly than for the rest of the population.

Figure 5 provides age and sex rates of hospitalization in graphic form.

FIGURE 5

AGE AND SEX SPECIFIC RATES OF HOSPITALIZATION FROM ACCIDENTS SASKATCHEWAN, 1986-87



RATE PER 1,000 POPULATION (HIR COVERED POPULATION)
SOURCE: HOSPITAL SERVICES BRANCH

TABLE 8

Hospital Separations, Patient Days and Average Days of Stay by Type of Accident, 1983-84 to 1986-87

Type of Accident	1983-84	1984-85	1985-86	1986-87
FALLS:				
Separations	6,226	6,043	6,215	6,027
Patient Days	63,517	66,367	64,811	62,119
Average Days of Stay	10.20	10.98	10.43	10.31
MOTOR VEHICLE ACCIDENTS:				
Separations	2,636	2,559	2,570	2,771
Patient Days	17,362	16,798	17,838	20,600
Average Days of Stay	6.59	6.56	6.94	7.43
STRUCK AGAINST OR BY PERSONS OR OBJECTS:				
Separations	1,002	1,100	1,066	1,146
Patient Days	3,408	3,594	3,421	3,728
Average Days of Stay	3.40	3.24	3.21	3.25
POISONING:				
Separations	552	689	779	750
Patient Days	945	1,603	1,934	1,952
Average Days of Stay	1.71	2.33	2.48	2.60
OTHER TRANSPORTATION:				
Separations	501	483	493	507
Patient Days	2,073	1,930	1,684	2,370
Average Days of Stay	4.14	3.99	3.42	4.67
CUTTING OR PIERCING INSTRUMENTS OR OBJECTS:				
Separations	414	457	457	432
Patient Days	1,559	1,855	1,469	1,476
Average Days of Stay	3.77	4.06	3.21	3.42
HOT SUBSTANCE OR OBJECT:				
Separations	254	251	213	230
Patient Days	2,464	2,346	2,037	2,053
Average Days of Stay	9.70	9.35	9.56	8.93
OVEREXERTION AND STRENUOUS MOVEMENT:				
Separations	541	566	549	605
Patient Days	2,519	2,547	2,648	2,981
Average Days of Stay	4.66	4.50	4.82	4.93

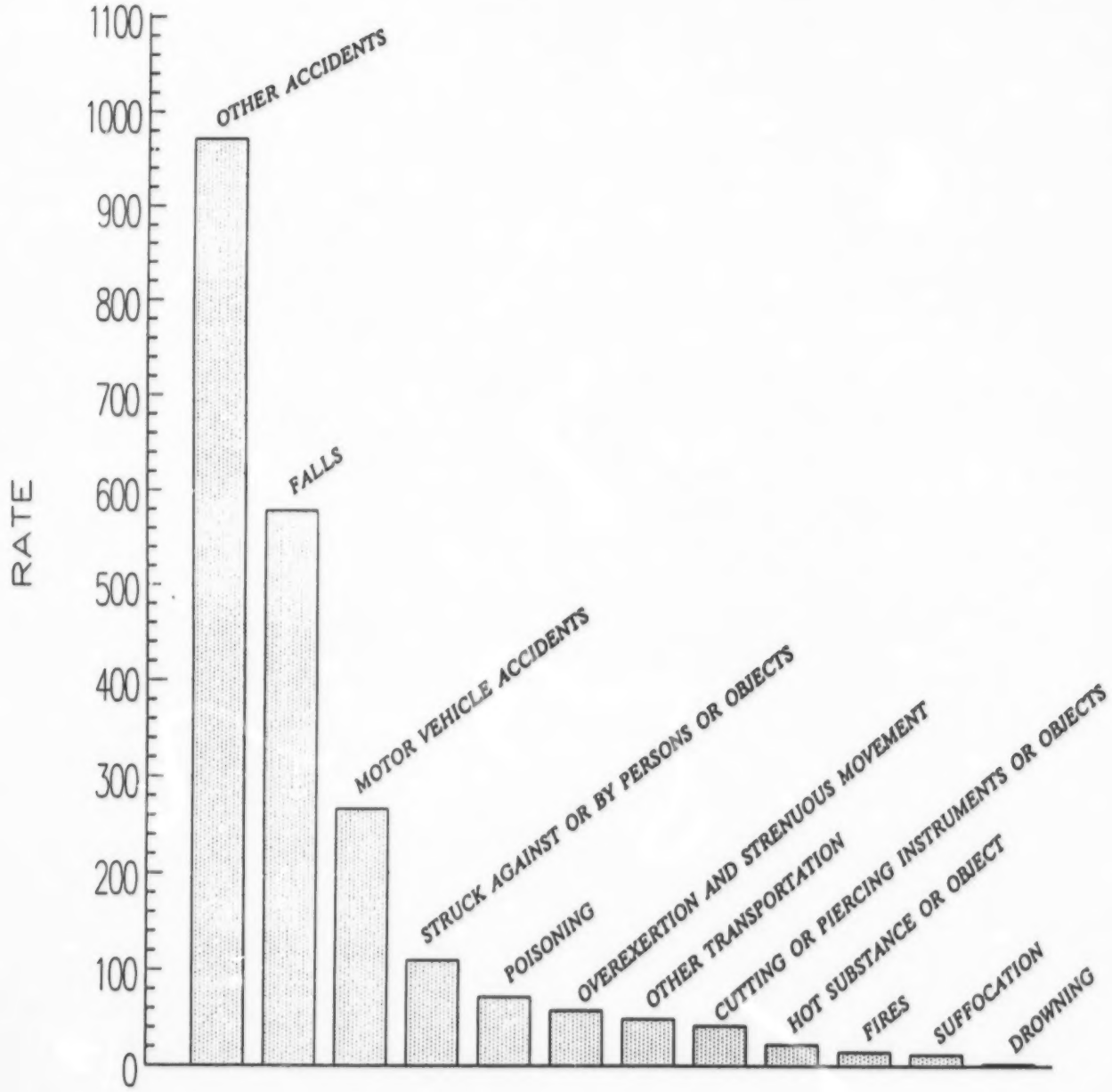
	1983-84	1984-85	1985-86	1986-87
FIRES:				
Separations	129	148	135	154
Patient Days	1,643	1,869	1,451	1,502
Average Days of Stay	12.74	12.63	10.75	9.75
DROWNING:				
Separations	35	37	16	22
Patient Days	72	136	171	213
Average Days of Stay	2.06	3.68	10.69	9.68
SUFFOCATIONS:				
Separations	95	80	107	124
Patient Days	210	322	360	516
Average Days of Stay	2.21	4.02	3.36	4.16
OTHER ACCIDENTS:				
Separations	2,327	7,030	8,787	10,111
Patient Days	13,901	65,254	83,949	100,226
Average Days of Stay	5.97	9.28	9.55	9.91
TOTAL ACCIDENTS:				
Separations	14,712	19,443	21,387	22,879
Patient Days	109,673	164,621	181,773	199,736
Average Days of Stay	7.45	8.48	8.50	8.73

Source: Hospital Services Branch

The number of separations and the average length of stay varies with different types of accidents. In Table 8 these data are presented for the years 1983-84 to 1986-87. The longest average length of stay is for falls. Fires also have a long length of stay, many of which who sustain more serious injuries and require a longer recovery period. The number of separations in the various accident categories has remained relatively constant, with the exception of other accidents, which has increased dramatically since 1983-84.

FIGURE 6

RATE OF HOSPITALIZATION DUE TO ACCIDENTAL INJURY BY CAUSE, SASKATCHEWAN, 1986-87



SOURCE: HOSPITAL SERVICES BRANCH
RATE PER 100,000 POPULATION

TABLE 9

Selected Causes of Hospitalization Due to Accidental Injury
By Place of Occurrence, Saskatchewan, 1986-87

Type of Accident	Home		Farm		Mine & Quarry		Industrial		Recreation & Sport		Street & Highway		Public Building		Residential Institution		Other Specified		Unspecified	
	Cases	Days	Cases	Days	Cases	Days	Cases	Days	Cases	Days	Cases	Days	Cases	Days	Cases	Days	Cases	Days	Cases	Days
Accidental Poisoning By Drugs, Medicaments and Biologicals	193	610	5	5	-	-	-	-	-	-	-	-	4	8	7	129	4	12	91	245
Accidental Poisoning By Other Solid & Liquid Substances, Gases & Vapours	138	252	22	32	-	-	3	6	7	8	-	-	3	3	3	17	5	10	88	227
Accidental Falls	2433	27044	50	269	4	25	59	316	534	1628	279	2890	355	2137	732	12629	109	542	1365	14123
Accidents Caused By Fire & Flames	76	798	6	59	-	-	-	-	6	27	-	-	-	-	4	8	4	22	48	505
Accidents Due to Natural and Environmental Factors	97	588	29	104	-	-	-	-	11	127	9	21	2	193	-	-	17	92	117	712
Submersion, Suffocation & Foreign Bodies	175	376	3	9	-	-	3	11	9	20	2	7	9	20	22	219	7	11	117	588
Other Accidents	932	5446	289	1865	9	28	141	759	731	1991	23	96	126	336	46	407	63	297	1119	5877

Source: Hospital Services Branch

A limited amount of data is available on where accidents occurred. Unfortunately in many cases the location is not specified (the proportion varies with each type of accident). Motor vehicle and other transportation accidents are not included in these data.

It is interesting to note that most poisonings occur at home. Falls, however, occur in virtually all locations. If these data were broken down by age they would likely reveal where different age groups spend much of their time, and where they are "exposed" to the danger of certain types of accidents.

TABLE 10

Hospital Separation and Patient Days for Leading Accident Classifications by Age Groups, Saskatchewan, 1986-87

Type of Accident	Total		0 - 1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 64		65 - 74		75+	
	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+
Falls																				
- Separations	6027	5.8	45	2.7	375	5.3	501	6.0	377	4.8	202	2.5	177	1.8	1452	3.0	826	10.9	2072	38.7
- Patient Days	62119	59.7	90	5.4	1286	18.0	1518	18.0	817	10.4	673	8.3	571	5.9	8638	17.9	9769	128.5	38757	724.5
- Average Days of Stay	10.3		2.0		3.4		3.0		2.2		3.3		3.2		5.9		11.8		18.7	
Motor Vehicle Accidents																				
- Separations	2771	2.7	4	0.2	62	0.9	147	1.7	211	2.7	542	6.7	477	4.9	1011	2.1	176	2.3	141	2.6
- Patient Days	20600	19.8	43	2.6	255	3.6	926	11.0	1374	17.5	2570	31.6	3273	33.8	7524	15.6	2004	26.4	2631	49.2
- Average Days of Stay	7.4		10.8		4.1		6.3		6.5		4.7		6.9		7.4		11.4		18.7	
Struck Against or by Persons or Objects																				
- Separations	1146	1.1	2	0.1	44	0.6	98	1.2	200	2.5	249	3.1	151	1.6	345	0.7	22	0.3	35	0.7
- Patient Days	3728	3.6	3	0.2	206	2.9	308	3.7	593	7.5	553	6.8	380	3.9	1176	2.4	136	1.8	373	7.0
- Average Days of Stay	3.2		1.5		4.7		3.1		3.0		2.2		2.5		3.4		6.2		10.7	
Poisoning																				
- Separations	750	0.7	8	0.7	379	5.3	37	0.4	22	0.3	42	0.5	33	0.3	138	0.3	34	0.4	57	1.1
- Patient Days	1952	1.9	12	0.7	592	8.3	86	1.0	43	0.5	93	1.1	68	0.7	392	0.8	212	2.8	454	8.5
- Average Days of Stay	2.6		1.5		1.6		2.3		1.9		2.2		2.1		2.8		6.2		7.9	
Other Transportation																				
- Separations	507	0.5	-	-	34	0.5	90	1.1	108	1.4	69	0.8	32	0.3	158	0.3	13	0.2	3	0.1
- Patient Days	2370	2.3	-	-	84	1.2	420	4.9	289	3.7	215	2.6	115	1.2	1030	2.1	185	2.4	32	0.6
- Average Days of Stay	4.7		-		2.5		4.6		2.7		3.1		3.4		6.5		14.2		10.6	
Cutting or Piercing Instrument or Objects																				
- Separations	432	0.4	2	0.1	24	0.3	34	0.4	31	0.4	53	0.7	51	0.5	199	0.4	23	0.3	15	0.3
- Patient Days	1476	1.4	2	0.1	72	1.0	107	1.3	120	1.5	146	1.8	135	1.4	635	1.3	112	1.4	147	2.7
- Average Days of Stay	3.4		1.0		3.0		3.1		3.9		2.8		2.6		3.2		4.9		9.8	
Hot Substance or Object																				
- Separations	230	0.2	9	0.5	84	1.2	13	0.2	9	0.1	10	0.1	14	0.1	63	0.1	13	0.2	15	0.3
- Patient Days	2053	1.9	51	3.0	699	9.8	108	1.3	40	0.5	65	0.8	82	0.8	541	1.1	142	1.9	325	6.1
- Average Days of Stay	8.9		5.6		8.3		8.3		4.4		6.5		5.9		8.6		10.9		21.6	

Type of Accident	Total		0 - 1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 64		65 - 74		75+	
	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+	No.	Rate+
Overexertion and Strenuous Movement																				
- Separations	605	0.6	2	0.1	2	*	5	0.1	28	0.4	50	0.6	67	0.7	347	0.7	59	0.8	45	0.8
- Patient Days	2981	2.9	14	0.8	4	0.1	7	0.1	74	0.9	175	2.1	190	1.9	1573	3.3	488	6.4	456	8.5
- Average Days of Stay	4.9		7.0		2.0		1.4		2.6		3.5		2.8		4.5		8.3		10.1	
Fires																				
- Separations	154	0.1	1	0.1	18	0.3	15	0.2	6	0.1	10	0.1	17	0.2	64	0.1	11	0.1	12	0.2
- Patient Days	1502	1.4	6	0.4	194	2.7	88	0.9	76	0.9	78	0.9	150	1.6	490	1.0	226	2.9	194	3.6
- Average Days of Stay	9.8		6.0		10.7		5.9		12.6		7.8		8.8		7.7		20.5		16.2	
Drowning																				
- Separations	22	*	-	-	5	0.1	3	*	6	0.1	1	*	3	*	2	*	1	*	1	*
- Patient Days	213	0.2	-	-	6	*	7	0.1	163	2.1	3	*	17	0.2	8	*	2	*	7	0.1
- Average Days of Stay	9.7		-		1.2		2.3		27.2		3.0		5.6		4.0		2.0		7.0	
Suffocation																				
- Separations	124	0.1	14	0.8	48	0.7	6	0.1	4	0.1	3	*	2	*	25	0.1	9	0.1	13	0.2
- Patient Days	516	0.5	45	2.7	112	1.6	9	0.1	10	0.1	6	0.1	11	0.1	160	0.3	52	0.7	111	2.1
- Average Days of Stay	4.2		3.2		2.3		1.5		2.5		2.0		5.5		6.4		5.7		8.5	
Other Accidents																				
- Separations	10111	9.7	78	4.7	389	5.5	271	3.2	237	3.0	369	4.5	510	5.3	4637	9.6	1865	24.5	1755	32.8
- Patient Days	100226	96.2	693	41.4	2118	29.7	1178	14.0	1230	15.6	2300	28.2	3201	33.1	41208	85.3	23971	315.2	24327	454.7
- Average Days of Stay	9.9		8.9		5.4		4.3		5.2		6.2		6.3		8.9		12.9		13.9	
Total																				
- Separations	22879	21.9	165	9.9	1464	20.5	1220	14.5	1239	15.8	1600	19.7	1534	15.9	8441	17.5	3052	40.1	4164	77.8
- Patient Days	199736	191.8	959	57.3	5628	78.9	4762	56.6	4829	61.4	6877	84.5	8193	84.7	63375	131.2	37299	490.5	67814	1267.6
- Average Days of Stay	8.7		5.8		3.8		3.9		3.9		4.3		5.3		7.5		12.2		16.3	

+ Rate per 1,000 Covered Population
* Less than 0.10
Source: Hospital Services Branch

This table provides detailed information on separations, patient days and average length of stay. These data also illustrate differences between age groups in regard to types of accidents. The separation rate per 1,000 population allows comparisons to be made between age groups. Accidents where there are few occurrences (e.g. drowning, suffocation), may vary considerably in frequency from one year to the next.

Saskatchewan Health

Vehicle Accidents

Saskatchewan

TABLE 11

Motor Vehicle Accident Mortality, Total Population By Age Group Saskatchewan, 1971-1987

Year	Under 15		15-24		25-64		65+		Total	
	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*	No.	Rate*
1971	23	7.9	71	41.7	100	26.0	31	32.9	225	24.3
1972	21	7.5	97	56.4	101	26.3	34	35.1	253	27.7
1973	31	11.4	108	63.5	89	23.3	34	34.1	262	29.0
1974	40	15.3	110	62.6	116	30.2	30	29.9	296	32.9
1975	30	11.6	100	54.8	93	23.8	35	34.5	258	28.4
1976	24	9.3	92	48.5	128	32.0	34	32.9	278	30.2
1977	26	10.2	113	58.0	99	24.3	35	33.1	273	28.8
1978	30	12.0	86	43.6	110	26.5	31	28.6	257	26.8
1979	29	11.8	103	52.1	105	24.9	35	31.5	272	28.3
1980	19	7.8	108	54.9	95	22.1	34	29.8	256	26.4
1981	36	15.1	95	51.6	122	28.4	26	22.4	279	28.8
1982	24	9.9	94	51.9	92	20.9	38	31.8	248	25.3
1983	23	9.5	73	40.4	107	23.9	32	26.2	235	23.7
1984	26	10.5	67	35.8	112	23.9	26	20.9	231	22.4
1985	19	7.6	64	34.9	98	20.5	39	30.6	220	21.2
1986	26	10.6	88	52.5	103	22.0	32	24.9	249	24.7
1987	25	10.1	85	52.2	100	21.1	38	28.9	248	24.5

*Rate per 100,000 population.

Source: Statistics Canada

Overall, motor vehicle accidents result annually in the greatest number of accidental deaths. In 1987, 248 people died as a result of these accidents. The highest mortality rate for motor vehicle accidents is found in the 15-24 year age group. Mortality rates from 1971 to 1987 vary, but no clear trend is evident.

TABLE 12

Hospitalized Motor Vehicle and Other Road Vehicle Accident Cases, Patient Days and Rates per 100,000 Population*, Saskatchewan, 1986-87

Type and Cause of Accident	0-14			15-24			25-44			45-64			65+		
	No.	Average Days Stay	Rate	No.	Average Days Stay	Rate	No.	Average Days Stay	Rate	No.	Average Days Stay	Rate	No.	Average Days Stay	Rate
Motorcycle Accidents	44	9.2	17.5	87	6.4	48.8	68	6.1	22.5	6	4.1	3.3	1	1.0	.7
Motor Vehicle Traffic Accidents	306	6.7	122.0	869	6.1	487.9	606	6.9	200.9	269	9.7	148.3	289	15.1	223.1
Collision with train	1	5.0	.4	20	42.5	1.1	3	17.3	.9	-	-	-	1	7.0	0.7
Collision of motor vehicle	39	4.4	15.5	155	5.9	87.0	161	5.8	53.4	81	8.3	44.7	104	10.4	80.3
Collision with bicycles	34	18.8	13.6	20	3.6	11.2	25	6.5	8.3	11	4.2	6.1	17	8.6	13.1
Collision with pedestrian	72	9.0	28.7	36	4.4	20.2	24	16.8	7.9	22	21.5	12.1	35	20.7	27.0
Collision with fixed object	2	2.0	.8	22	5.5	12.4	12	2.0	3.9	4	8.3	2.2	2	12.5	1.5
Loss of control of motor vehicle	41	4.1	16.3	317	6.2	177.9	151	5.8	50.1	70	9.0	38.6	50	14.1	38.6
Other	71	7.1	28.3	231	6.0	129.7	162	8.1	53.7	75	8.5	41.4	79	15.6	60.9
Motor Vehicle Non-Traffic Accidents	118	4.6	47.0	150	3.8	84.2	92	4.7	30.5	44	6.9	24.3	28	9.8	21.6
Involving pedestrians	11	2.0	4.4	9	3.1	5.1	7	3.7	2.3	5	8.2	2.8	2	7.5	1.5
Other	107	4.5	42.3	141	3.8	79.2	85	4.8	28.2	39	6.7	21.5	23	11.3	17.8
Other Road Vehicle Accidents	215	3.6	85.7	88	3.0	49.4	91	5.1	30.2	41	7.0	22.6	14	13.6	10.8
Involving pedestrians	5	7.6	1.9	2	1.5	1.1	1	5.0	0.3	2	19.5	1.1	1	5.0	.7
Injured while riding bicycle	162	2.9	64.6	35	1.9	19.7	24	5.3	7.9	17	5.5	9.4	10	8.4	7.7
Other	48	5.3	19.1	51	3.8	28.6	66	4.9	21.9	22	7.0	12.1	3	34.0	2.3

Source: Hospital Services Branch

*Rate per 100,000 population - 1986 HIR Covered Population - 0-14 - 250,801
15-24 - 178,111
25-44 - 301,564
45-64 - 181,341
65+ - 129,541

As noted earlier, motor vehicle and related accidents result in a significant number of hospital admissions. The type of accident, however, varies with different age groups. Thus, young children (0-14 years), for example, are much more likely to be injured while riding a bicycle than people of other ages. Motorcycle accidents are most common among 15-24 year olds. These differences are likely due to involvement in different activities and to experience.

Detailed information on traffic accidents is contained in Saskatchewan Traffic Accident Facts, published annually by the Department of Highways and Transportation.

Saskatchewan Health

Inter-Provincial Comparisons

Saskatchewan

TABLE 13

Accident Mortality Rates*,
Canada and the Provinces, 1985-1987

	1985 Total	1986 Total	1987 Total
Canada	52.9	53.7	55.4
Newfoundland	36.7	32.6	36.3
Prince Edward Island	53.5	56.9	50.3
Nova Scotia	54.0	46.3	53.1
New Brunswick	55.3	54.7	54.8
Quebec	60.6	55.1	59.8
Ontario	47.8	45.5	47.0
Manitoba	53.7	58.6	58.8
Saskatchewan	64.2	66.0	67.9
Alberta	46.0	66.5	63.9
British Columbia	52.9	63.6	63.0
Yukon	153.5	135.4	139.3
Northwest Territories	127.7	157.2	104.4

Source: Statistics Canada Catalogue 84-206 Annual
*Rate per 100,000 population

Includes all accidents and late effects ICD-9 Codes E800-E999 (including suicide and homicide).

In the table above accident mortality rates are shown for Canada and the provinces (these data include suicide and homicide). These rates vary enormously between the provinces, and furthermore, considerable variation can be found from one year to the next. Fluctuations are particularly evident in provinces with small populations. A province with a large population of people aged 15-24, for example, would likely have a high accident mortality rate.

While comparisons between provinces are difficult, Saskatchewan has tended to have a high accident mortality rate relative to other provinces. The Yukon and Northwest Territories have rates more than double the Canadian average.

TABLE 14

Accident Mortality Rates* by Sex, Canada and the Provinces, 1985-1987

	1985			1986			1987		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Canada	75.0	31.3	52.9	75.3	32.5	53.7	78.2	33.3	55.4
Newfoundland	58.7	14.5	36.7	48.8	16.2	32.6	54.3	18.3	36.3
Prince Edward Island	82.0	25.1	53.5	89.6	24.8	56.9	71.3	29.6	50.3
Nova Scotia	78.0	30.6	54.0	71.2	21.9	46.3	76.9	30.1	53.1
New Brunswick	83.0	28.1	55.3	82.0	28.0	54.7	86.4	23.9	54.8
Quebec	88.4	33.7	60.6	78.3	32.6	55.1	86.2	34.5	59.8
Ontario	64.6	31.6	47.8	60.9	30.5	45.5	63.2	31.4	47.0
Manitoba	78.4	29.5	53.7	82.1	35.7	58.6	84.2	34.0	58.8
Saskatchewan	90.9	37.5	64.2	94.9	37.0	66.0	96.5	39.2	67.9
Alberta	65.3	26.2	46.0	94.6	37.3	66.5	92.0	35.4	63.9
British Columbia	75.0	31.2	52.9	89.4	38.2	63.6	89.2	37.4	63.0
Yukon	228.8	72.7	153.5	184.9	81.8	135.4	165.4	111.1	139.3
Northwest Territories	187.3	62.0	127.7	184.2	127.6	157.2	140.2	65.0	104.4

Source: Statistics Canada Catalogue 84-206 Annual
*Rate per 100,000 population

Includes all accidents and late effects ICD-9 Codes E800-E999 (including suicide and homicide).

It has been noted earlier that accident mortality rates are significantly higher for males than for females. Table 14 illustrates these differences for Canada and the provinces. For Saskatchewan the rate for females is slightly above the Canadian average, while the rate for males is well above the average.

Saskatchewan Health

Population

Saskatchewan

Covered Population by Age Distribution, Saskatchewan
1964 - 1989

Year	Total	0-1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44
1964	935,005	22,093	90,206	109,794	98,483	83,794	58,578	50,691	52,432	54,445	55,544
1965	943,799	20,382	90,122	110,186	101,175	87,187	60,047	50,718	51,581	53,910	54,867
1966	951,434	19,501	88,576	110,431	103,520	89,834	61,904	51,634	51,034	53,344	54,621
1967	959,310	17,769	85,731	110,803	105,859	91,365	66,723	52,090	50,414	52,667	53,930
1968	962,376	17,810	80,704	111,198	106,789	93,276	69,444	53,710	49,829	51,977	53,600
1969	963,878	17,978	75,665	109,998	107,115	95,776	72,048	54,807	49,351	51,080	52,743
1970	948,370	16,891	70,150	105,993	106,132	97,109	71,126	53,281	47,748	49,121	51,753
1971	938,527	16,878	66,662	101,101	105,265	98,857	71,186	52,521	47,141	47,585	50,423
1972	934,607	15,774	65,424	95,788	104,274	100,636	71,443	54,785	46,696	46,444	49,291
1973	923,181	16,782	62,801	88,780	102,701	98,945	71,266	55,503	46,784	45,165	48,050
1974	922,487	14,394	61,905	83,968	101,655	99,900	75,882	58,181	47,579	44,620	47,170
1975	931,921	14,611	62,059	81,042	99,876	100,758	81,621	62,691	49,380	44,699	46,167
1976	949,463	16,061	62,886	80,686	97,405	101,330	88,331	68,049	51,796	45,880	45,839
1977	961,526	16,256	63,770	80,193	93,531	101,680	93,095	71,163	55,987	46,770	45,502
1978	970,510	16,235	64,327	80,125	89,099	101,916	95,526	74,739	59,152	48,165	45,224
1979	976,734	16,356	65,123	79,109	84,985	101,460	96,158	78,522	62,295	49,405	45,801
1980	982,257	15,610	65,901	78,957	81,844	99,942	96,438	82,381	65,675	50,722	45,173
1981	990,746	15,840	66,659	78,828	80,752	97,203	96,756	86,040	68,960	52,267	45,970
1982	1,000,667	16,160	67,645	79,833	80,118	93,409	97,019	89,216	70,976	56,219	46,647
1983	1,014,496	16,478	68,888	80,652	79,994	89,644	99,427	92,107	74,348	59,220	48,045
1984	1,028,965	16,778	70,424	82,293	79,306	86,175	101,099	94,167	78,450	62,806	49,636
1985	1,039,249	16,806	71,280	83,481	79,442	82,990	100,427	95,136	82,484	66,461	51,075
1986	1,041,358	16,745	71,289	84,127	78,640	81,419	96,692	95,199	85,161	68,911	52,293
1987	1,045,440	16,403	71,331	84,747	79,398	80,443	91,926	95,064	87,631	70,114	55,953
1988	1,044,151	15,318	69,985	85,457	79,465	79,616	86,450	94,369	88,597	72,282	58,101
1989	1,036,862	15,948	67,819	84,826	79,793	77,863	80,423	91,748	87,939	74,320	60,454

Source: Health Insurance Registration Covered Population

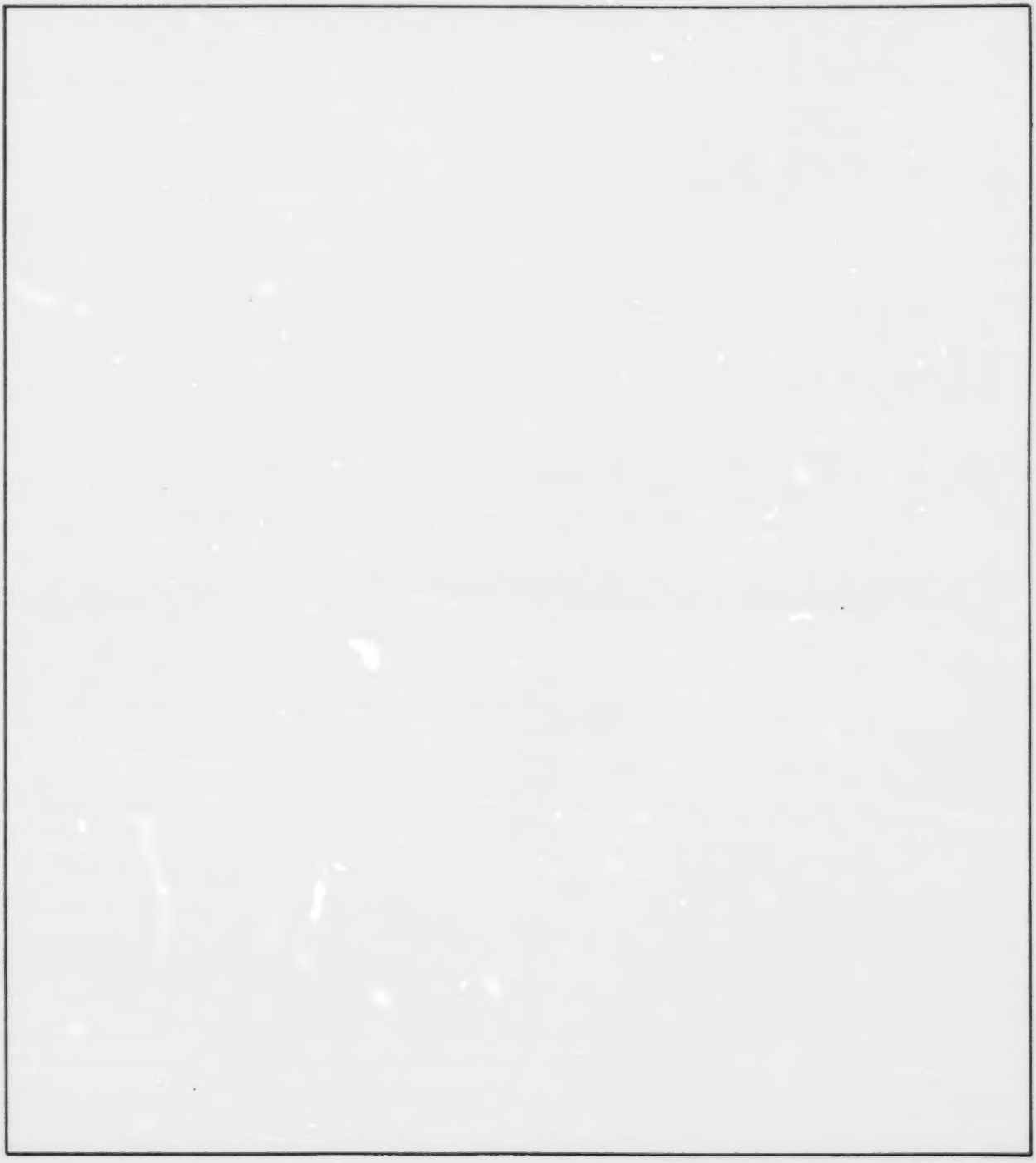
Year	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	90-94	95+
1964	52,018	47,604	39,825	33,042	26,759	23,759	18,986	11,254	4,328	1,144	226
1965	52,441	48,823	40,790	33,468	27,115	23,237	19,372	11,755	4,797	1,226	600
1966	52,604	49,457	42,029	34,108	27,328	23,538	19,158	12,154	5,070	1,337	252
1967	53,059	49,989	43,038	35,175	27,714	23,296	19,247	12,522	5,540	1,464	915
1968	53,182	49,763	43,841	36,125	28,359	22,739	18,976	12,697	5,857	1,586	914
1969	53,515	49,851	45,185	36,912	29,491	22,327	18,832	12,923	6,227	1,737	317
1970	52,423	50,015	46,089	37,644	29,861	22,691	18,453	13,183	6,444	1,949	314
1971	51,768	49,866	46,502	38,603	30,516	22,928	18,388	13,161	6,659	2,128	389
1972	50,856	50,102	46,772	39,325	31,971	23,677	18,364	13,274	6,946	2,348	417
1973	50,168	49,931	49,469	40,053	33,271	24,596	18,274	13,315	7,324	2,508	495
1974	49,268	50,123	46,372	41,156	33,469	25,310	17,862	13,202	7,335	2,609	527
1975	48,944	49,629	46,784	42,243	33,956	25,761	18,086	12,901	7,428	2,687	598
1976	48,443	49,446	47,031	42,892	34,989	26,454	18,324	12,875	7,352	2,766	628
1977	47,938	48,993	47,588	43,430	35,677	27,455	18,790	12,796	7,340	2,862	710
1978	47,487	48,914	47,872	43,494	36,431	28,540	19,436	12,691	7,408	2,993	736
1979	46,814	48,316	48,241	43,584	37,684	29,137	20,313	12,610	7,660	3,085	796
1980	45,867	48,042	47,710	44,021	38,896	29,673	20,851	12,887	7,581	3,250	836
1981	45,402	47,514	47,565	44,267	39,673	30,587	21,432	13,250	7,595	3,302	884
1982	44,929	47,021	47,180	44,810	40,241	31,324	22,335	13,642	7,667	3,340	936
1983	44,819	46,589	47,242	45,067	40,432	32,022	23,318	14,212	7,624	3,352	1,016
1984	44,949	46,037	46,702	45,647	40,230	33,301	23,856	14,903	7,672	3,463	1,071
1985	45,081	45,367	46,554	45,237	40,887	34,481	24,408	15,211	7,886	3,437	1,118
1986	45,691	44,787	45,943	44,920	40,969	35,076	25,127	15,750	8,085	3,390	1,144
1987	46,160	44,204	45,450	44,518	41,339	35,595	25,796	16,382	8,393	3,429	1,164
1988	47,200	43,808	44,975	44,415	41,453	35,642	26,526	17,099	8,798	3,450	1,145
1989	47,932	43,438	44,201	43,823	41,910	35,443	27,562	17,531	9,265	3,459	1,165

Source: Health Insurance Registration Covered Population

Saskatchewan Health

Appendix A

Saskatchewan



Accidental Deaths and Suicide By Age Group and Individual E-Code
Saskatchewan, 1987

Cause of Death		0-1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+	Total
E800-E807	Railway Accidents																				
	Collision with other object (E801)	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
	Hit by Rolling Stock (E805)	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	1	-	3
E810-E819	Motor Vehicle Traffic Accidents																				
	Collision with train (E810)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	2
	Collision with another motor vehicle (E812)	1	1	2	3	14	15	9	4	8	-	1	4	3	4	4	7	4	4	1	89
	Collision with other vehicle (E813)	-	2	-	1	1	-	1	-	-	-	1	1	2	-	-	1	-	-	-	10
	Collision with pedestrian (E814)	-	3	2	1	4	7	6	2	2	2	2	-	1	1	-	3	1	1	-	38
	Other collision, highway (E815)	-	-	-	-	-	2	-	2	1	1	-	-	-	-	-	-	-	-	-	6
	Non-collision due to loss of control, highway (E816)	-	-	-	5	12	13	4	2	4	4	2	5	2	5	1	-	1	-	-	60
	Noncollision boarding or alighting (E817)	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	Other non-collision (E818)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1
	Unspecified nature (E819)	-	-	3	1	10	4	3	-	2	1	1	1	1	1	1	1	-	2	2	34
E820-E825	Motor Vehicle Non-Traffic Accidents																				
	Motor driven snow vehicle (E820)	-	-	-	-	2	-	-	2	-	-	-	1	1	-	-	-	-	-	-	6
	Collision with moving object (E822)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
E826-E829	Other Road Vehicle Accidents																				
	Pedal cycle (E826)	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1
	Involving animal being ridden (E828)	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
E830-E838	Water Transport Accidents																				
	Other accidental submersion or drowning (E832)	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
E840-E845	Air & Space Transport Accidents																				
	Powered aircraft at takeoff or landing (E840)	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
	Powered aircraft, other, unspecified (E841)	-	-	-	-	-	-	-	-	1	-	-	1	1	-	-	-	-	-	-	3
E850-E858	Accidental Poisoning, Drugs, Medicaments, Biologicals																				
	Analgesics, antipyretics, antirheumatics (E850)	-	-	-	-	-	-	1	1	-	-	-	-	-	1	-	-	-	-	-	3
	Other sedatives and hypnotics (E852)	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	2
	Tranquilizers (E853)	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
	Other Psychotropic agents (E854)	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	2
	Other drugs acting on CNS and autonomic nervous system (E855)	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	Other drugs (E858)	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	2

Cause of Death		0-1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+	Total
E860-E869	Accidental Poisoning By Other Substances																				
	Alcohol (NEC)(E860)	-	-	-	-	-	1	1	-	-	-	2	2	1	-	1	-	-	-	-	8
	Other and NOS solids and Liquids (E856)	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
	Gas distributed by pipeline (E867)	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	Other utility gas, carbon monoxide (E869)	-	-	-	-	1	1	1	1	1	-	1	-	2	-	-	1	-	-	-	9
E870-E876	Misadventures to Patients During Surgical & Medical Care																				
	Accidental cut, puncture, perforation or haemorrhage (E870)	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2
E878-E879	Complication of Medical Procedures Without Mention of Misadventure																				
	Other procedures, without misadventure (E879)	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1
E880-E888	Accidental Falls																				
	On or from stairs or steps (E880)	-	-	-	-	-	-	-	-	-	-	1	2	-	2	4	2	-	-	1	12
	On or from ladders and scaffolding (E881)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	3
	From, out of building, other structure (E882)	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	2
	Other, from one level to another (E884)	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	2	5	9
	Same level, slipping, tripping (E885)	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	1	-	4	2	9
	Fracture, cause unspecified (E887)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	1	3	9
	Other & unspecified (E888)	-	-	-	-	-	-	-	-	-	-	-	1	-	1	2	2	6	4	23	39
E890-E899	Accidents Caused by Fire & Flames																				
	Conflagration in private dwelling (E890)	-	7	3	3	1	2	1	-	2	1	1	1	1	1	1	-	1	2	-	28
	In other and NOS building or structure (E891)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
	Conflagration not, building, structure (E892)	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	2
	Other specified fire and flames (E898)	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
E900-E909	Accidents due to Natural and Environmental Factors																				
	Excessive cold (E901)	-	-	-	-	-	2	-	1	2	-	-	-	1	-	-	-	-	2	-	8
	Hunger, thirst, exposure, neglect (E904)	-	-	-	-	-	-	-	1	-	-	1	1	-	-	1	-	-	-	-	4
	Other injury caused by animals (E906)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1
	Cataclysmic storms, and floods (E908)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	2
E910-E915	Accidents, Submersion, Suffocation and Foreign Bodies																				
	Accidental drowning and submersion (E910)	1	3	2	-	1	1	4	2	5	4	3	-	-	2	-	-	-	-	-	28
	Inhalation & ingestion of food causing respiratory obstruction (E911)	-	3	-	1	1	-	-	-	-	-	2	1	-	2	3	3	2	2	1	21
	Causing respiratory obstruction (E912)	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	1	3
	Accidental mechanical suffocation (E913)	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2

Cause of Death		0-1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+	Total
E916-E928	Other Accidents																				
	Struck by falling object (E916)	-	1	-	-	-	-	-	-	3	1	1	-	-	-	-	-	-	-	-	6
	Striking against or struck by objects or persons (E917)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
	Caught in or between objects (E918)	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	Caused by machinery (E919)	-	-	-	2	-	1	1	-	-	1	2	3	-	1	3	-	-	1	-	15
	Cutting, piercing instruments (E920)	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1
	Explosion of pressure vessel (E921)	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
	Firearm missile (E922)	-	-	-	1	1	-	-	2	-	-	2	-	-	-	-	-	-	-	-	6
	Explosive material (E923)	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	2
	Electric current (E925)	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	2
	Other and NOS environmental causes (E928)	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	2
E929	Late Effects of Accidental Injury	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	2
E950-E959	Suicide & Self Inflicted Injury																				
	Poisoning by solid or liquid substances (E950)	-	-	-	-	-	4	2	1	2	2	1	-	-	1	1	3	-	-	-	17
	Poisoning by other gases and vapours (E952)	-	-	-	-	-	3	2	2	1	1	2	-	-	3	-	1	-	-	-	15
	Hanging, strangulation and suffocation (E953)	-	-	-	2	3	7	7	4	-	1	1	1	-	2	3	-	1	-	2	34
	Submersion (E954)	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	2
	Firearms & explosives (E955)	-	-	-	-	9	9	4	6	2	6	1	4	5	1	2	2	2	1	-	54
	Cutting & piercing instruments (E956)	-	-	-	-	-	-	-	1	1	-	-	-	1	-	-	1	-	1	-	5
	Jumping from high place (E957)	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2
	Other & unspecified means (E958)	-	-	-	-	-	-	-	1	1	-	-	-	-	1	-	-	-	-	-	3
Total Accidental Deaths and Suicides (E800 - E959)		5	21	12	21	63	78	51	38	42	29	31	33	26	31	31	36	25	31	43	647

Accidental Deaths and Suicide, By Individual E-Code and Sex
Saskatchewan, Total Population, 1984-1987

Cause of Accident	1984 Male	1984 Female	1985 Male	1985 Female	1986 Male	1986 Female	1987 Male	1987 Female
E800-E807 Railway Accidents								
Collision with rolling stock (E800)	3	-	3	1	1	4	1	-
Collision with other object (E801)	-	-	-	-	-	-	1	-
Hit by rolling stock (E805)	-	-	-	-	-	1	2	1
E810-E819 Motor Vehicle Traffic Accidents								
Collision with train (E810)	8	-	4	2	4	1	2	-
Collision with another motor vehicle (E812)	61	25	62	26	65	35	62	27
Collision with other vehicle (E813)	-	2	1	1	6	2	7	3
Collision with pedestrian (E814)	21	13	21	9	21	5	23	15
Other collision, highway (E815)	4	-	3	1	1	-	6	-
Non-collision due to loss of control, highway (E816)	49	17	45	14	65	17	46	14
Noncollision, boarding or alighting (E817)	-	-	-	-	-	-	1	-
Other non-collision (E818)	2	3	3	4	1	-	-	1
Unspecified nature (E819)	13	4	6	7	18	4	25	9
E820-E828 Motor Vehicle Non-Traffic Accidents								
Motor driven snow vehicle (E820)	2	-	4	-	2	-	6	-
Other off-road motor vehicle (E821)	-	-	-	-	1	-	-	-
Collision with moving object (E822)	3	1	3	-	-	-	1	-
Other and unspecified nature (E825)	2	1	3	1	1	-	-	-
Pedal cycle (E826)	-	-	-	-	1	-	-	1
Involving animal being ridden (E828)	1	-	1	-	-	-	-	-
E830-E838 Water Transport Accidents								
Boat with submersion (E830)	5	-	4	-	1	-	-	-
Other accidental submersion or drowning (E832)	2	-	-	-	2	-	1	-

Cause of Accident	1984		1985		1986		1987	
	Male	Female	Male	Female	Male	Female	Male	Female
E840-E845 Air & Space Transport Accidents								
Powered aircraft at take-off or landing (E840)	-	-	-	-	-	-	1	-
Powered aircraft, other, unspecified (E841)	5	-	2	-	10	-	3	-
Accident to unpowered aircraft (E842)	-	-	-	-	1	-	-	-
E846-E848 Vehicle Accidents Not Elsewhere Classified								
Powered vehicles used in premises of industrial, commercial establishment (E846)	-	-	1	-	1	-	-	-
E850-E858 Accidental Poisoning, Drugs, Medicaments, Biologicals								
Analgesics, antipyretics, antirheumatics (E850)	1	1	-	2	1	1	1	2
Barbiturates (E851)	1	-	1	-	-	-	-	-
Other sedatives and hypnotics (E852)	1	-	-	-	-	-	1	1
Tranquilizers (E853)	3	-	1	1	-	-	1	-
Other psychotropic agents (E854)	2	1	2	2	1	-	-	2
Other drugs acting on CNS and autonomic nervous system (E855)	1	-	-	-	-	1	1	-
Other drugs (E858)	1	2	1	4	-	4	1	1
E860-E869 Accidental Poisoning By Other Substances								
Alcohol, NEC (E860)	2	1	6	2	1	-	6	2
Disinfectant, paint varnish, cleaners (E861)	-	-	1	-	-	-	-	-
Agricultural, horticultural, pharmaceutical (E863)	1	-	-	-	-	-	-	-
Other and NOS solids and liquids (E866)	-	-	-	-	-	-	1	-
Gas distributed by pipeline (E867)	-	-	-	-	-	-	1	-
Other utility gas, carbon monoxide (E868)	3	2	2	1	12	-	9	-
Other gases, vapours (E869)	-	-	2	-	2	-	-	-

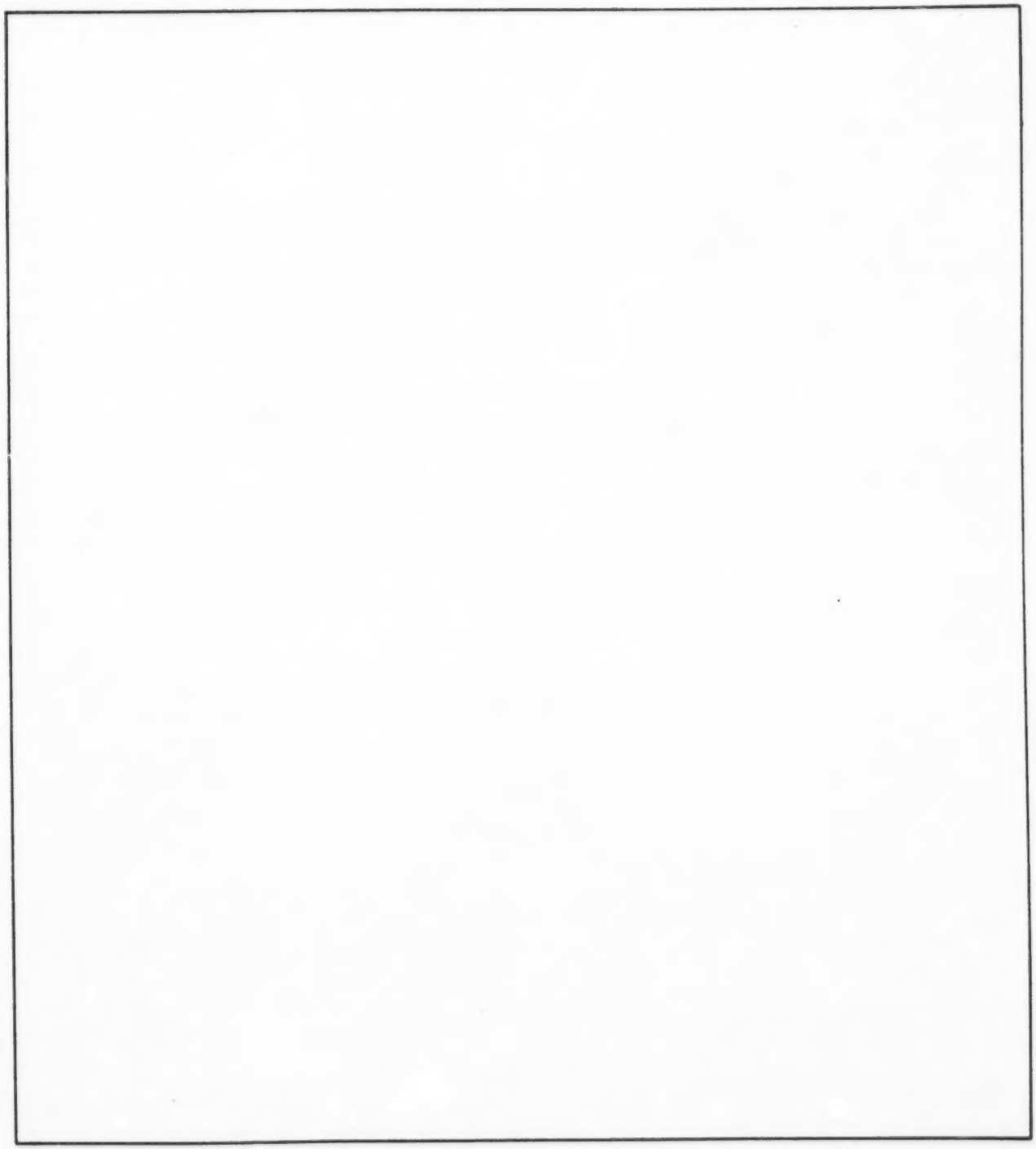
Cause of Accident		1984		1985		1986		1987	
		Male	Female	Male	Female	Male	Female	Male	Female
E870-E876	Misadventures to Patients During Surgical and Medical Care								
	Accidental cut, puncture, perforation or haemorrhage (E870)	2	-	2	3	1	-	2	-
	Mechanical failure of instrument (E874)	-	-	-	-	-	1	-	-
	Other and unspecified (E876)	1	-	-	-	-	-	-	-
E878	Complication of Medical Procedures Without Mention of Misadventure								
	Surgical operation, procedures (E878)	1	3	1	-	-	-	-	-
	Other procedures, without misadventures (E879)	-	-	-	-	-	-	1	-
E880-E888	Accidental Falls								
	On or from stairs or steps (E880)	2	5	4	-	7	4	6	6
	On or from ladders or scaffolding (E881)	1	-	-	-	1	-	3	-
	From, out of building, other structure (E882)	2	-	3	-	1	-	2	-
	Other, from one level to another (E884)	7	8	6	8	7	3	4	5
	Same level, slipping, tripping (E885)	3	4	6	6	3	5	4	5
	Fracture, cause unspecified (E887)	2	5	5	5	2	11	4	5
	Other and unspecified (E888)	16	21	24	24	23	27	14	25
E890-E899	Accidents Caused By Fire and Flames								
	Conflagration in private dwelling (E890)	16	6	21	2	14	3	18	10
	In other and NOS building or structure (E891)	1	-	-	-	-	-	1	-
	Conflagration not, building, structure (E892)	-	-	-	-	-	-	2	-
	Other specified fire and flames (E898)	-	-	-	-	-	-	-	1
E900-E909	Accidents Due To Natural and Environmental Factors								
	Excessive Heat (E900)	1	-	2	-	-	-	-	-
	Excessive cold (E901)	8	4	10	3	8	4	4	4
	Hunger, thirst, exposure, neglect (E904)	1	1	1	1	2	-	3	1
	Poisoning, toxic reactions (E905)	-	-	-	-	1	-	-	-

Cause of Accident		1984		1985		1986		1987	
		Male	Female	Male	Female	Male	Female	Male	Female
	Other injury caused by animals (E906)	-	-	-	-	2	-	1	-
	Cataclysmic storms and floods (E908)	-	-	-	-	-	-	1	1
E910-E915	Accidents, Submersion, Suffocation and Foreign Bodies								
	Accidental drowning and submersion (E910)	13	3	13	8	16	3	27	1
	Inhalation & ingestion of food causing obstruction (E911)	11	4	12	5	8	11	10	11
	Causing respiratory obstruction (E912)	2	2	-	-	-	2	2	1
	Accidental mechanical suffocation (E913)	1	3	5	1	5	1	1	1
	Foreign body entering other orifice (E915)	-	1	1	-	-	-	-	-
E916-E928	Other Accidents								
	Struck by falling object (E916)	12	-	10	-	1	-	6	-
	Striking against or struck by objects or persons (E917)	2	-	1	-	1	-	-	1
	Caught in or between objects (E918)	-	-	-	-	-	-	1	-
	Caused by machinery (E919)	9	3	15	-	16	-	15	-
	Cutting, piercing instruments (E920)	-	-	-	-	-	-	1	-
	Explosion of pressure vessel (E921)	1	-	-	-	-	-	1	-
	Firearm missile (E922)	4	-	2	-	2	-	6	-
	Explosive material (E923)	1	-	-	-	-	-	2	-
	Hot substance or object, caustic or corrosive material and steam (E924)	1	-	2	-	1	-	-	-
	Electric current (E925)	3	1	2	1	1	-	2	-
	Other and NOS environmental causes (E928)	-	1	1	-	2	1	1	1
E929	Late Effects of Accidental Injury	4	3	3	3	4	2	1	1
E930-E949	Substances Causing Adverse Effects in Therapeutic Use								
	Water, mineral, and uric acid metabolism drugs (E944)	-	-	-	1	-	-	-	-

Cause of Accident		1984		1985		1986		1987	
		Male	Female	Male	Female	Male	Female	Male	Female
	Other and NOS drugs and medicaments (E947)	1	1	-	-	-	1	-	-
	Other vaccine, biological substance (E949)	-	1	-	-	-	-	-	-
E950-E959	Suicide and Self Inflicted Injury								
	Poisoning by solid or liquid substances (E950)	10	10	9	8	10	16	6	11
	Poisoning by other gases and vapours (E952)	20	4	13	3	15	3	12	3
	Hanging, strangulation & suffocation (E953)	28	3	21	8	23	4	26	8
	Submersion (E954)	7	2	4	1	2	-	2	-
	Firearms and explosives (E955)	48	1	53	7	55	5	49	5
	Cutting and piercing instruments (E956)	1	-	2	-	-	2	4	1
	Jumping from high place (E957)	-	-	-	-	-	1	1	1
	Other and unspecified means (E958)	1	1	4	-	2	-	3	-
	TOTAL DEATHS DUE TO ACCIDENTS AND SUICIDE	440	174	440	176	455	185	459	188

Saskatchewan
Health

Appendix B



Saskatchewan

Hospitalized Accident Cases* and Patient Days
Saskatchewan, 1986-87

Type and Cause of Accident		Cases		Patient Days
		Number	Rate+	
E800-E807	Railway Accidents			
	Collision with rolling stock (E800)	1	.09	2
	Fall in, on or from railway train (E804)	2	.19	25
	Hit by rolling stock (E805)	2	.19	12
	Other specified railway accident (E806)	1	.09	17
	Unspecified nature (E807)	1	.09	2
E810-E819	Motor Vehicle Traffic Accidents			
	Collision with train (E810)	7	.67	149
	Re-entrant collision with another motor vehicle (E811)	9	.86	46
	Collision with another motor vehicle (E812)	582	55.88	4,345
	Collision with other vehicle (E813)	113	10.85	610
	Collision with pedestrian (E814)	190	18.24	2,413
	Other collision, highway (E815)	52	4.99	241
	Noncollision due to loss of control, highway (E816)	693	66.54	4,820
	Noncollision motor vehicle traffic accident while boarding or alighting (E817)	19	1.82	923
	Other noncollision (E818)	134	12.86	485
	Unspecified nature (E819)	540	51.85	4,461
E820-E825	Motor Vehicle NonTraffic Accidents			
	Motor driven snow vehicle (E820)	108	10.37	527
	Other off-road motor vehicle (E821)	165	15.84	753
	Collision with moving vehicle (E822)	41	3.93	155
	Collision with stationary object (E823)	30	2.88	153
	Other motor vehicle nontraffic accident while boarding or alighting (E824)	22	2.11	218
	Other motor vehicle nontraffic accident of other and unspecified nature (E825)	66	6.30	301

Type and Cause of Accident		Cases		Patient Days
		Number	Rate+	
E826-E829	Other Road Vehicle Accidents			
	Pedal cycle accident (E826)	263	25.25	968
	Animal drawn vehicle accident (E827)	10	.96	47
	Accident involving animal being ridden (E828)	172	16.51	945
	Other road vehicle accidents (E829)	4	.38	10
E830-E838	Water Transport Accidents			
	Other accidental submersion or drowning (E832)	2	.19	12
	Other fall from one level to another (E834)	1	.09	1
	Other and unspecified fall in water transport (E835)	3	.28	14
	Other and unspecified (E838)	7	.67	15
E840-E845	Air & Space Transport Accidents			
	Powered aircraft at takeoff or landing (E840)	1	.09	11
	Powered aircraft, other, unspecified (E841)	5	.48	123
	Accident to unpowered aircraft (E842)	1	.09	2
	Fall in, or from aircraft (E843)	1	.09	44
	Other specified air transport accidents (E844)	4	.38	32
E846-E848	Vehicle Accidents not Elsewhere Classifiable			
	Accidents involving other vehicles not elsewhere classifiable (E848)	28	2.68	100
E850-E858	Accidental Poisoning, Drugs, Medicaments, Biologicals			
	Analgesics, antipyretics, antirheumatics (E850)	111	10.65	382
	Barbiturates (E851)	9	.86	18
	Accidental poisoning by other sedatives and hypnotics (E852)	33	3.16	134
	Accidental poisoning by tranquilizers (E853)	23	2.20	53
	Accidental poisoning by other psychotropic agents (E854)	28	2.68	53

Type and Cause of Accident		Cases		Patient Days
		Number	Rate+	
	Accidental poisoning by other drugs acting on central and autonomic nervous systems (E855)	25	2.40	90
	Accidental poisoning by antibiotics (E856)	6	.57	11
	Accidental poisoning by anti-infectives (E857)	4	.38	18
	Other drugs (E858)	203	19.49	524
E860-E869	Accidental Poisoning by Other Substances			
	By alcohol, not elsewhere classifiable (E860)	40	3.84	100
	Cleansing and polishing agents, disinfectants, paints and varnishes (E861)	27	2.59	47
	Petroleum, other solvents, vapours, NEC (E862)	48	4.60	97
	Agricultural, horticultural, pharmaceutical substances (E863)	82	7.87	174
	Corrosives and caustics, NEC (E864)	17	1.63	27
	Foodstuffs and poisonous plants (E865)	29	2.78	49
	Other and unspecified solid and liquid substances (E866)	22	2.11	85
	Gas distributed by pipeline (E867)	1	.09	1
	Other utility gas and other carbon monoxide (E868)	13	1.15	23
	Other gases and vapours (E869)	29	2.78	66
E870-E876	Misadventures to Patients During Surgical and Medical Care			
	Accidental cut, puncture, perforation or haemorrhage (E870)	325	31.20	3,275
	Foreign object left in body during procedure (E871)	6	.57	43
	Failure of sterile precautions during procedure (E872)	58	5.56	794
	Failure in dosage (E873)	8	.76	68
	Mechanical failure of instrument or apparatus during procedure (E874)	16	1.53	145
	Other and unspecified misadventures during medical care (E876)	72	6.91	547

Type and Cause of Accident		Cases Number	Cases Rate+	Patient Days
E878-E879	Surgical and Medical Procedures as the Cause of Abnormal Reaction of Patient or Later Complication, Without Mention of Misadventure at the time of the Procedure			
	Surgical operation and other surgical procedures as the cause of abnormal reaction of patient, without mention of misadventure at the time of the operation (E878)	4,360	418.68	53,047
	Other procedures (E879)	1,002	96.22	10,471
E880-E888	Accidental Falls			
	On or from stairs or steps (E880)	659	63.28	6,036
	On or from ladders or scaffolding (E881)	177	16.99	1,439
	Fall from or out of building or other structure (E882)	94	9.02	620
	Fall into hole or other opening in surface (E883)	32	3.07	201
	Other fall from one level to another (E884)	1,074	103.13	8,289
	Fall on same level from slipping, tripping or stumbling (E885)	1,793	172.17	16,043
	Fall on same level from collision, pushing or shoving, by or with other person (E886)	192	18.43	510
	Fracture, cause unspecified (E887)	195	18.72	2,964
	Other and unspecified (E888)	1,811	173.90	26,017
E890-E899	Accidents Caused by Fire & Flames			
	Conflagration in private dwelling (E890)	21	2.01	162
	Conflagration in other and unspecified building or structure (E891)	8	.76	38
	Conflagration not in building or structure (E892)	6	.57	21
	Ignition of clothing (E893)	10	.96	228
	Ignition of highly inflammable material (E894)	34	3.26	283
	Controlled fire in private dwelling (E895)	6	.57	44

Type and Cause of Accident		Cases Number	Cases Rate+	Patient Days
	Accidents caused by controlled fire in other and unspecified building or structure (E896)	4	.38	7
	Controlled fire not in building or structure (E897)	10	.96	76
	Other specified fire & flames (E898)	16	1.53	180
	Unspecified fire (E899)	39	3.74	463
E900-E909	Accidents Due to Natural and Environmental Factors			
	Excessive heat (E900)	34	3.26	157
	Excessive cold (E901)	43	4.12	766
	Hunger, thirst, exposure, neglect (E904)	12	1.15	80
	Poisoning, toxic reactions (E905)	33	3.16	71
	Other injury caused by animals (E906)	176	16.90	863
E910-E915	Accidents, Submersions, Suffocation and Foreign Bodies			
	Accidental drowning or submersion (E910)	20	1.92	201
	Inhalation and ingestion of food causing respiratory obstruction (E911)	78	7.49	264
	Inhalation and ingestion of other object causing obstruction of respiratory tract or suffocation (E912)	43	4.12	244
	Accidental mechanical suffocation (E913)	3	.28	8
	Foreign body accidentally entering eye and adnexa (E914)	32	3.07	106
	Foreign body accidentally entering other orifice (E915)	190	18.24	514
E916-E929	Other Accidents			
	Struck by falling object (E916)	99	9.50	509
	Striking against or struck by objects or persons (E917)	1,146	110.04	3,728
	Caught in or between objects (E918)	107	10.27	427
	Caused by machinery (E919)	386	37.06	2,473
	Cutting or piercing instruments (E920)	432	41.48	1,476

Type and Cause of Accident		Cases		Patient Days
		Number	Rate+	
	Caused by explosion of pressure vessel (E921)	10	.96	26
	Firearm missile (E922)	46	4.41	375
	Caused by explosive material (E923)	44	4.22	479
	Hot substance or object, caustic or corrosive material & steam (E924)	230	22.08	2,053
	Electric current (E925)	23	2.20	193
	Exposure to radiation (E926)	9	.86	75
	Overexertion and strenuous movement (E927)	605	58.09	2,981
	Other and unspecified environmental and accidental causes (E928)	483	46.38	2,921
E929	Late Effects of Accidental Injury	659	63.28	5,932
E930-E949	Drugs, Medicaments & Biological Substances Causing Adverse Effects in Therapeutic Use			
	Antibiotics (E930)	252	24.19	1,920
	Other anti-infectives (E931)	71	6.81	607
	Hormones and synthetic substitutes (E932)	119	11.42	1,241
	Primarily systemic agents (E933)	197	18.91	1,160
	Agents primarily affecting blood constituents (E934)	74	7.10	814
	Analgesics, antipyretics and antirheumatics (E935)	234	22.47	2,032
	Anticonvulsants & anti-parkinsonism drugs (E936)	46	4.41	409
	Sedatives and hypnotics (E937)	24	2.30	178
	Other central nervous system depressants (E938)	127	12.19	721
	Psychotropic agents (E939)	79	7.58	941
	Drugs primarily affecting the autonomic nervous system (E941)	18	1.72	187
	Agents primarily affecting the cardiovascular system (E942)	283	27.17	2,725
	Agents primarily affecting gastrointestinal system (E943)	21	2.01	231
	Water, mineral, and uric acid metabolism drugs (E944)	109	10.46	1,089

Type and Cause of Accident		Cases Number	Cases Rate+	Patient Days
	Agents primarily acting on the smooth and skeletal muscles and respiratory system (E945)	36	3.45	200
	Agents primarily affecting skin and mucous membrane, opthalmological, otorhinolaryngological and dental drugs (E946)	58	5.56	508
	Other and unspecified drugs and medicaments (E947)	119	11.42	862
	Bacterial vaccines (E948)	6	.57	23
	Other vaccines and biological substance (E949)	5	.48	21
E950-E959	Suicide & Self Inflicted Injury			
	By solid or liquid substances (E950)	716	68.75	2,277
	Poisoning by other gases and vapours (E952)	6	.57	29
	Hanging, strangulation, and suffocation (E953)	9	.86	18
	Submersion (E954)	1	.09	1
	Firearms & explosives (E955)	25	2.40	196
	Cutting & piercing instruments (E956)	38	3.65	229
	Jumping from high place (E957)	3	.28	60
	Other and unspecified means (E958)	16	1.53	125
	Late effects of self-inflicted injury (E959)	6	.57	96
Total All Causes (E800 - E959)		23,699	2,275.77	202,767

Source: Hospital Services Branch

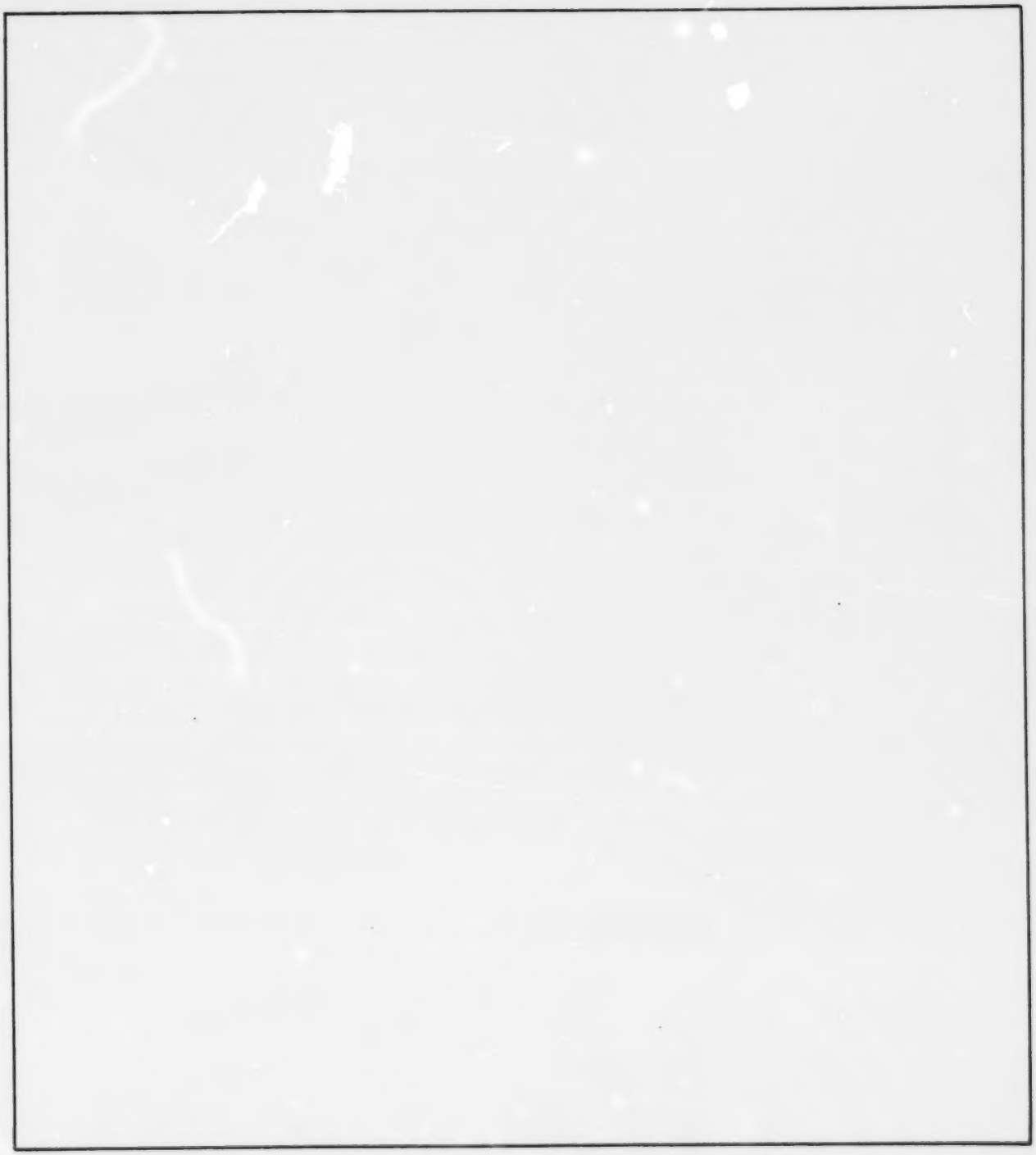
* Excludes cases not covered by the Hospital Services Branch. This table shows data for the period April 1, 1986 - March 31, 1987.

\+ Rate per 100,000 population (HIR Covered Population)

Saskatchewan Health

Accident Classifications

Saskatchewan



EXPLANATION OF CATEGORIES USED IN THIS BOOK

The categories used to describe accidents are summaries of classifications found in hospital and mortality data.

The classifications used are the International Classification of Disease codes for external cause of injury (E codes - E800 - E959, ICD 9th Revision).

The following explanations are intended to clarify what could be included under the headings used, although specific ICD codes are not always listed under the same groups.

Motor Vehicle Accidents (E810 - E825)

Includes collision and non-collision accidents involving a car, truck, bus, construction or farm machine while in transport under its own power, motorcycle or snowmobile.

Includes collision between any of these motor vehicles and a pedestrian, bicyclist, rider of animal or occupant of a non-motorized vehicle.

Includes accidents occurring on a public highway (traffic accident) and elsewhere (non-traffic accident).

Fires (E890 - E899)

Includes injuries caused by fires and flames.

Drowning (E830, E832, E910)

Includes submersion in boating accident, while swimming, falling through ice, or drowning in bath.

Suffocation (E911 - E913)

Includes suffocation or choking on food or other object, mechanical suffocation by smothering or strangulation.

Poisoning (E850 - E858, E860 - E869)

Includes accidental ingestion or overdose of drugs or other substances, gases and vapours.

Other Transportation (E800 - E807, E826 - E829, E831, E833 - E838, E840 - E845, E846 - E848)

Includes bicycle accidents where no motor vehicle is involved. Animal drawn and other non-motorized vehicles. Railway and air accidents and water transportation accidents other than submersion.

Cutting Objects (E920)

Includes broken glass, nails, hand tools, powered hand tools, lawn mowers, meat slicer, saws and other sharp objects.

Hot Substance or Object (E924)

Includes acids, hot liquids, molten metal, heat from electric appliance, without fire.

Overexertion and Strenuous Movement (E927)

Includes exhaustion, injury in bending, straining or twisting, lifting, pulling or pushing.

Falls (E880 - E888)

Accidental falls including falls on stairs, while running, slipping, and so on.

Struck Against or by Persons or Objects (E917)

Including collision with person, stationary object, or moving object (other than motor vehicle or objects elsewhere classified).

Foreign Objects (E914 - E915)

Foreign body entering an eye, ear, nose or other orifice. Including dust, oil or object (not food) which causes injury other than suffocation.

Natural Factors (E900 - E909)

Including excessive heat and cold, exposure, animal bites, insect bites and catastrophic floods or earth movement.

Suicide and Self-inflicted Injury (E950 - E959)

Includes injuries in suicide and attempted suicide.

Other Accidents (E870 - E879, E916, E918, E919, E921 - E923, E925, E928, E929, E930 - E949)

Includes misadventures to patients during surgical and medical care, struck accidentally by falling object, caught accidentally in or between objects, accidents caused by machinery, accidents caused by explosion of pressure vessel, firearm missile and explosive material, late effects of accidental injury and drugs, medicaments and biological substances causing adverse effects in therapeutic use.